

Monthly Progress Report No. 16

Former NuHart East Site

22-32 Clay Street & 67-93 Dupont Street, Brooklyn, NY

Brownfield Cleanup Program Site #: **C224287**

Reporting Period: April 1, 2023 – May 1, 2023

1. Introduction

In accordance with the reporting requirements of the Brownfield Site Cleanup Agreement (BCA) dated 24 November 2021 for the Former NuHart East Site, located at 22-32 Clay Street & 67-93 Dupont Street, Brooklyn, NY (Site), Haley & Aldrich of New York (Haley & Aldrich), has prepared this monthly progress report, on behalf of Dupont Street 1 LLC, to summarize the work performed at the Site from April 1 through May 1, 2023.

The Former NuHart East Site is located in the Greenpoint neighborhood of Brooklyn, NY and is identified as Block 2487 Lots 17, 18, 20, 21, and 57 on the New York City tax map. Currently, the site is a vacant 49,000-square foot lot with a concrete slab on grade. The proposed development project consists of a new five-story residential building with a one-level cellar that will encompass the entire site footprint. Groundwater is encountered at approximately 5 to 10 feet below ground surface (ft bgs).

2. Investigation or Remedial Actions Relative to the Site during this Reporting Period

During this reporting period, Haley & Aldrich oversaw site preparation activities, installation of the negative pressure enclosure, soil excavation and stockpiling, soil and concrete & demolition (C&D) material loadout for offsite disposal, dewatering well point installation, and cleaning of five underground storage tanks (USTs). Haley & Aldrich performed the Community Air Monitoring Program in accordance with the approved Remedial Action Work Plan during ground intrusive activities at two upwind and two downwind locations measuring volatile organic compounds (VOCs) and dust particulates. Daily reports have been submitted the following business day to the New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) case managers.

During excavation underneath the negative pressure enclosure, the five closed-in-place USTs were uncovered and placed on poly tarp within the tent. Eastern Environmental Solutions, Inc. (Eastern) cut and cleaned each tank. Tank contents and the USTs are currently stored on-site within the enclosure and will remain on-site until approval of the Supplemental Contained-in Request 04, submitted to NYSDEC on 21 April 2023. Visual evidence of impacts was observed beneath TK-1 and TK-2. Confirmatory soil samples were collected from the base of TK-3, TK-4, and TK-5. Confirmatory soil samples will be collected below TK-1 and TK-2 once the area becomes accessible and the dewatering system is activated to remove excess water observed in this area.

3. Actions Relative to the Site Anticipated for the Next Reporting Period

The anticipated actions relative to the Site for the next reporting period include excavation of soil site-wide, installation of the support of excavation, and operation of the dewatering system.

4. Approved Activity Modifications (changes of work scope and/or schedule)

There have been no modifications to the work scope.

5. Results of Sampling, Testing and Other Relevant Data

Three endpoint samples were collected during this reporting period and analyzed for Volatile Organic Compounds (VOCs) by Method 8260B, Semi-Volatile Organic Compounds (SVOCs) by Method 8270C, Target Analyte List (TAL) Metals by Method 6010, Polychlorinated Biphenyls (PCBs) by Method 8082, Pesticides by Method 8081, Per- and polyfluoroalkyl substances (PFAS) by Method 537.1, and 1,4-dioxane by Method 8270 SIM as per the NYSDEC approved RAWP. Endpoints include the following: EP-51, EP-52, and EP-53.

EP-53 failed to achieve Unrestricted Use Soil Cleanup Objectives for arsenic and will be recollected and reanalyzed for arsenic at 2 ft below the proposed remedial depth once excavation is continued in this area.

The following confirmatory samples from the base and sidewalls of the USTs were collected and analyzed for the same set of analysis as the endpoint samples summarized above during this reporting period:

- TK-3 – SW-09 (5'), SW-10 (5'), SW-11 (5'), SW-12 (5'), ST-03 (6')
- TK-4 – SW-05 (5'), SW-06 (5'), SW-07 (5'), SW-08 (5'), ST-02 (6')
- TK-5 – SW-01 (5'), SW-02 (5'), SW-03 (5'), SW-04 (5'), ST-01 (6')

Haley & Aldrich collected a water sample (DEP-01) from a holding tank on 24 April 2023 which was representative of the water discharged from the Site on the same date. The sample was analyzed for New York City Department of Environmental Protection dewatering sampling requirements which include VOCs, total metals, chloride, carbonaceous biochemical oxygen demand, total solids, total suspended solids, pH, hexavalent chromium, non-polar material, nitrate/nitrite, acid/base neutrals, PCBs and flash point as well as for SVOCs. Analytical results found that contaminants of concern for the Site were not detected.

Analytical results summarized above are provided in Attachment A.

6. Deliverables Submitted During This Reporting Period

The Supplemental Contained-in Request 04 for the USTs on the Site was submitted to NYSDEC on 21 April 2023.

7. Information Regarding Percentage of Completion

The Remedial Action is approximately 15% complete.

8. Unresolved Delays Encountered or Anticipated That May Affect the Schedule and

Mitigation Efforts

Intrusive work was temporarily delayed on the Site until the OU-1 barrier wall sheet pile wall was completed (anticipated for early the upcoming reporting period).

9. Community Participation (CP) Plan Activities during This Reporting Period

A Community Board Meeting was held at Dupont Senior Housing on 3 April 2023 to discuss the next steps in the remediation at the Site.

10. Activities Anticipated in Support of the CP Plan for the Next Reporting Period:

None.

11. Miscellaneous Information

None.



ANALYTICAL REPORT

Lab Number:	L2319884
Client:	Haley & Aldrich 237 West 35th Street 16th Floor New York, NY 10123
ATTN:	Mari Cate Conlon
Phone:	(347) 271-1521
Project Name:	NUHART EAST
Project Number:	0201891
Report Date:	04/27/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2319884-01	EP-51 (8')	SOIL	47 DUPONT STREET, BROOKLYN, NY	04/13/23 14:35	04/13/23
L2319884-02	EP-52 (6')	SOIL	47 DUPONT STREET, BROOKLYN, NY	04/13/23 14:40	04/13/23
L2319884-03	EP-53 (6')	SOIL	47 DUPONT STREET, BROOKLYN, NY	04/13/23 14:45	04/13/23

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
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Case Narrative (continued)

Report Submission

April 27, 2023: This final report includes the results of all requested analyses.

April 20, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The analyses performed were specified by the client.

Semivolatile Organics

The WG1767990-2/-3 LCS/LCSD recoveries, associated with L2319884-01 through -03, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Perfluorinated Alkyl Acids by Isotope Dilution

L2319884-01RE, -02RE, and -03RE: The sample was re-extracted within holding time in order to report the full list of compounds. The results of the re-extraction are reported.

L2319884-01RE, -02RE, and -03RE: The MeOH fraction of the extraction is reported for the following compounds: Perfluorooctanesulfonamide (FOSA), N-Methyl Perfluorooctane Sulfonamide (NMeFOSA), N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA), N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE), and N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE) due to better extraction efficiency of the Surrogates (Extracted Internal Standards).

L2319884-01RE, -02RE, -03RE, WG1768618-1, and WG1768618-2: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

The WG1768618-2 LCS recovery, associated with L2319884-01RE, -02RE, and -03RE, is above the

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Case Narrative (continued)

acceptance criteria for perfluorododecane sulfonic acid (pfdods) (129%); however, the associated samples are non-detect to the RL for this target analyte. The results of the original analysis are reported.

Total Metals

L2319884-01 through -03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 04/27/23

ORGANICS



VOLATILES



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
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SAMPLE RESULTS

Lab ID:	L2319884-01	Date Collected:	04/13/23 14:35
Client ID:	EP-51 (8')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil
Analytical Method:	1,8260D
Analytical Date:	04/18/23 11:18
Analyst:	JIC
Percent Solids:	81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND	ug/kg	4.8	2.2	1	
1,1-Dichloroethane	ND	ug/kg	0.97	0.14	1	
Chloroform	ND	ug/kg	1.4	0.14	1	
Carbon tetrachloride	ND	ug/kg	0.97	0.22	1	
1,2-Dichloropropane	ND	ug/kg	0.97	0.12	1	
Dibromochloromethane	ND	ug/kg	0.97	0.14	1	
1,1,2-Trichloroethane	ND	ug/kg	0.97	0.26	1	
Tetrachloroethene	ND	ug/kg	0.48	0.19	1	
Chlorobenzene	ND	ug/kg	0.48	0.12	1	
Trichlorofluoromethane	ND	ug/kg	3.9	0.67	1	
1,2-Dichloroethane	ND	ug/kg	0.97	0.25	1	
1,1,1-Trichloroethane	ND	ug/kg	0.48	0.16	1	
Bromodichloromethane	ND	ug/kg	0.48	0.10	1	
trans-1,3-Dichloropropene	ND	ug/kg	0.97	0.26	1	
cis-1,3-Dichloropropene	ND	ug/kg	0.48	0.15	1	
1,3-Dichloropropene, Total	ND	ug/kg	0.48	0.15	1	
1,1-Dichloropropene	ND	ug/kg	0.48	0.15	1	
Bromoform	ND	ug/kg	3.9	0.24	1	
1,1,2,2-Tetrachloroethane	ND	ug/kg	0.48	0.16	1	
Benzene	ND	ug/kg	0.48	0.16	1	
Toluene	ND	ug/kg	0.97	0.53	1	
Ethylbenzene	ND	ug/kg	0.97	0.14	1	
Chloromethane	ND	ug/kg	3.9	0.90	1	
Bromomethane	ND	ug/kg	1.9	0.56	1	
Vinyl chloride	ND	ug/kg	0.97	0.32	1	
Chloroethane	ND	ug/kg	1.9	0.44	1	
1,1-Dichloroethene	ND	ug/kg	0.97	0.23	1	
trans-1,2-Dichloroethene	ND	ug/kg	1.4	0.13	1	



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Client ID:	EP-51 (8')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND	ug/kg	0.48	0.13	1	
1,2-Dichlorobenzene	ND	ug/kg	1.9	0.14	1	
1,3-Dichlorobenzene	ND	ug/kg	1.9	0.14	1	
1,4-Dichlorobenzene	ND	ug/kg	1.9	0.16	1	
Methyl tert butyl ether	ND	ug/kg	1.9	0.19	1	
p/m-Xylene	ND	ug/kg	1.9	0.54	1	
o-Xylene	ND	ug/kg	0.97	0.28	1	
Xylenes, Total	ND	ug/kg	0.97	0.28	1	
cis-1,2-Dichloroethene	ND	ug/kg	0.97	0.17	1	
1,2-Dichloroethene, Total	ND	ug/kg	0.97	0.13	1	
Dibromomethane	ND	ug/kg	1.9	0.23	1	
Styrene	ND	ug/kg	0.97	0.19	1	
Dichlorodifluoromethane	ND	ug/kg	9.7	0.89	1	
Acetone	ND	ug/kg	9.7	4.7	1	
Carbon disulfide	ND	ug/kg	9.7	4.4	1	
2-Butanone	ND	ug/kg	9.7	2.2	1	
Vinyl acetate	ND	ug/kg	9.7	2.1	1	
4-Methyl-2-pentanone	ND	ug/kg	9.7	1.2	1	
1,2,3-Trichloropropane	ND	ug/kg	1.9	0.12	1	
2-Hexanone	ND	ug/kg	9.7	1.1	1	
Bromochloromethane	ND	ug/kg	1.9	0.20	1	
2,2-Dichloropropane	ND	ug/kg	1.9	0.20	1	
1,2-Dibromoethane	ND	ug/kg	0.97	0.27	1	
1,3-Dichloropropane	ND	ug/kg	1.9	0.16	1	
1,1,1,2-Tetrachloroethane	ND	ug/kg	0.48	0.13	1	
Bromobenzene	ND	ug/kg	1.9	0.14	1	
n-Butylbenzene	ND	ug/kg	0.97	0.16	1	
sec-Butylbenzene	ND	ug/kg	0.97	0.14	1	
tert-Butylbenzene	ND	ug/kg	1.9	0.11	1	
o-Chlorotoluene	ND	ug/kg	1.9	0.18	1	
p-Chlorotoluene	ND	ug/kg	1.9	0.10	1	
1,2-Dibromo-3-chloropropane	ND	ug/kg	2.9	0.97	1	
Hexachlorobutadiene	ND	ug/kg	3.9	0.16	1	
Isopropylbenzene	ND	ug/kg	0.97	0.10	1	
p-Isopropyltoluene	ND	ug/kg	0.97	0.10	1	
Naphthalene	ND	ug/kg	3.9	0.63	1	
Acrylonitrile	ND	ug/kg	3.9	1.1	1	



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SAMPLE RESULTS

Lab ID:	L2319884-01	Date Collected:	04/13/23 14:35
Client ID:	EP-51 (8')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	77	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-02	Date Collected:	04/13/23 14:40
Client ID:	EP-52 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil
Analytical Method:	1,8260D
Analytical Date:	04/18/23 11:44
Analyst:	JIC
Percent Solids:	84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND	ug/kg	5.5	2.5	1	
1,1-Dichloroethane	ND	ug/kg	1.1	0.16	1	
Chloroform	ND	ug/kg	1.6	0.15	1	
Carbon tetrachloride	ND	ug/kg	1.1	0.25	1	
1,2-Dichloropropane	ND	ug/kg	1.1	0.14	1	
Dibromochloromethane	ND	ug/kg	1.1	0.15	1	
1,1,2-Trichloroethane	ND	ug/kg	1.1	0.29	1	
Tetrachloroethene	ND	ug/kg	0.55	0.22	1	
Chlorobenzene	ND	ug/kg	0.55	0.14	1	
Trichlorofluoromethane	ND	ug/kg	4.4	0.76	1	
1,2-Dichloroethane	ND	ug/kg	1.1	0.28	1	
1,1,1-Trichloroethane	ND	ug/kg	0.55	0.18	1	
Bromodichloromethane	ND	ug/kg	0.55	0.12	1	
trans-1,3-Dichloropropene	ND	ug/kg	1.1	0.30	1	
cis-1,3-Dichloropropene	ND	ug/kg	0.55	0.17	1	
1,3-Dichloropropene, Total	ND	ug/kg	0.55	0.17	1	
1,1-Dichloropropene	ND	ug/kg	0.55	0.17	1	
Bromoform	ND	ug/kg	4.4	0.27	1	
1,1,2,2-Tetrachloroethane	ND	ug/kg	0.55	0.18	1	
Benzene	ND	ug/kg	0.55	0.18	1	
Toluene	ND	ug/kg	1.1	0.60	1	
Ethylbenzene	ND	ug/kg	1.1	0.15	1	
Chloromethane	ND	ug/kg	4.4	1.0	1	
Bromomethane	ND	ug/kg	2.2	0.64	1	
Vinyl chloride	ND	ug/kg	1.1	0.37	1	
Chloroethane	ND	ug/kg	2.2	0.50	1	
1,1-Dichloroethene	ND	ug/kg	1.1	0.26	1	
trans-1,2-Dichloroethene	ND	ug/kg	1.6	0.15	1	



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SAMPLE RESULTS

Lab ID:	L2319884-02	Date Collected:	04/13/23 14:40
Client ID:	EP-52 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND	ug/kg	0.55	0.15	1	
1,2-Dichlorobenzene	ND	ug/kg	2.2	0.16	1	
1,3-Dichlorobenzene	ND	ug/kg	2.2	0.16	1	
1,4-Dichlorobenzene	ND	ug/kg	2.2	0.19	1	
Methyl tert butyl ether	ND	ug/kg	2.2	0.22	1	
p/m-Xylene	ND	ug/kg	2.2	0.62	1	
o-Xylene	ND	ug/kg	1.1	0.32	1	
Xylenes, Total	ND	ug/kg	1.1	0.32	1	
cis-1,2-Dichloroethene	ND	ug/kg	1.1	0.19	1	
1,2-Dichloroethene, Total	ND	ug/kg	1.1	0.15	1	
Dibromomethane	ND	ug/kg	2.2	0.26	1	
Styrene	ND	ug/kg	1.1	0.22	1	
Dichlorodifluoromethane	ND	ug/kg	11	1.0	1	
Acetone	ND	ug/kg	11	5.3	1	
Carbon disulfide	ND	ug/kg	11	5.0	1	
2-Butanone	ND	ug/kg	11	2.4	1	
Vinyl acetate	ND	ug/kg	11	2.4	1	
4-Methyl-2-pentanone	ND	ug/kg	11	1.4	1	
1,2,3-Trichloropropane	ND	ug/kg	2.2	0.14	1	
2-Hexanone	ND	ug/kg	11	1.3	1	
Bromochloromethane	ND	ug/kg	2.2	0.22	1	
2,2-Dichloropropane	ND	ug/kg	2.2	0.22	1	
1,2-Dibromoethane	ND	ug/kg	1.1	0.31	1	
1,3-Dichloropropane	ND	ug/kg	2.2	0.18	1	
1,1,1,2-Tetrachloroethane	ND	ug/kg	0.55	0.14	1	
Bromobenzene	ND	ug/kg	2.2	0.16	1	
n-Butylbenzene	ND	ug/kg	1.1	0.18	1	
sec-Butylbenzene	ND	ug/kg	1.1	0.16	1	
tert-Butylbenzene	ND	ug/kg	2.2	0.13	1	
o-Chlorotoluene	ND	ug/kg	2.2	0.21	1	
p-Chlorotoluene	ND	ug/kg	2.2	0.12	1	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.3	1.1	1	
Hexachlorobutadiene	ND	ug/kg	4.4	0.18	1	
Isopropylbenzene	ND	ug/kg	1.1	0.12	1	
p-Isopropyltoluene	ND	ug/kg	1.1	0.12	1	
Naphthalene	ND	ug/kg	4.4	0.71	1	
Acrylonitrile	ND	ug/kg	4.4	1.3	1	



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Lab ID:	L2319884-02	Date Collected:	04/13/23 14:40
Client ID:	EP-52 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-03	Date Collected:	04/13/23 14:45
Client ID:	EP-53 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/18/23 12:10
Analyst: JIC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND	ug/kg	4.8	2.2	1	
1,1-Dichloroethane	ND	ug/kg	0.96	0.14	1	
Chloroform	ND	ug/kg	1.4	0.13	1	
Carbon tetrachloride	ND	ug/kg	0.96	0.22	1	
1,2-Dichloropropane	ND	ug/kg	0.96	0.12	1	
Dibromochloromethane	ND	ug/kg	0.96	0.13	1	
1,1,2-Trichloroethane	ND	ug/kg	0.96	0.26	1	
Tetrachloroethene	ND	ug/kg	0.48	0.19	1	
Chlorobenzene	ND	ug/kg	0.48	0.12	1	
Trichlorofluoromethane	ND	ug/kg	3.8	0.67	1	
1,2-Dichloroethane	ND	ug/kg	0.96	0.25	1	
1,1,1-Trichloroethane	ND	ug/kg	0.48	0.16	1	
Bromodichloromethane	ND	ug/kg	0.48	0.10	1	
trans-1,3-Dichloropropene	ND	ug/kg	0.96	0.26	1	
cis-1,3-Dichloropropene	ND	ug/kg	0.48	0.15	1	
1,3-Dichloropropene, Total	ND	ug/kg	0.48	0.15	1	
1,1-Dichloropropene	ND	ug/kg	0.48	0.15	1	
Bromoform	ND	ug/kg	3.8	0.24	1	
1,1,2,2-Tetrachloroethane	ND	ug/kg	0.48	0.16	1	
Benzene	ND	ug/kg	0.48	0.16	1	
Toluene	ND	ug/kg	0.96	0.52	1	
Ethylbenzene	ND	ug/kg	0.96	0.14	1	
Chloromethane	ND	ug/kg	3.8	0.89	1	
Bromomethane	ND	ug/kg	1.9	0.56	1	
Vinyl chloride	ND	ug/kg	0.96	0.32	1	
Chloroethane	ND	ug/kg	1.9	0.43	1	
1,1-Dichloroethene	ND	ug/kg	0.96	0.23	1	
trans-1,2-Dichloroethene	ND	ug/kg	1.4	0.13	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-03	Date Collected:	04/13/23 14:45
Client ID:	EP-53 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND	ug/kg	0.48	0.13	1	
1,2-Dichlorobenzene	ND	ug/kg	1.9	0.14	1	
1,3-Dichlorobenzene	ND	ug/kg	1.9	0.14	1	
1,4-Dichlorobenzene	ND	ug/kg	1.9	0.16	1	
Methyl tert butyl ether	ND	ug/kg	1.9	0.19	1	
p/m-Xylene	ND	ug/kg	1.9	0.54	1	
o-Xylene	ND	ug/kg	0.96	0.28	1	
Xylenes, Total	ND	ug/kg	0.96	0.28	1	
cis-1,2-Dichloroethene	ND	ug/kg	0.96	0.17	1	
1,2-Dichloroethene, Total	ND	ug/kg	0.96	0.13	1	
Dibromomethane	ND	ug/kg	1.9	0.23	1	
Styrene	ND	ug/kg	0.96	0.19	1	
Dichlorodifluoromethane	ND	ug/kg	9.6	0.88	1	
Acetone	ND	ug/kg	9.6	4.6	1	
Carbon disulfide	ND	ug/kg	9.6	4.4	1	
2-Butanone	ND	ug/kg	9.6	2.1	1	
Vinyl acetate	ND	ug/kg	9.6	2.1	1	
4-Methyl-2-pentanone	ND	ug/kg	9.6	1.2	1	
1,2,3-Trichloropropane	ND	ug/kg	1.9	0.12	1	
2-Hexanone	ND	ug/kg	9.6	1.1	1	
Bromochloromethane	ND	ug/kg	1.9	0.20	1	
2,2-Dichloropropane	ND	ug/kg	1.9	0.19	1	
1,2-Dibromoethane	ND	ug/kg	0.96	0.27	1	
1,3-Dichloropropane	ND	ug/kg	1.9	0.16	1	
1,1,1,2-Tetrachloroethane	ND	ug/kg	0.48	0.13	1	
Bromobenzene	ND	ug/kg	1.9	0.14	1	
n-Butylbenzene	ND	ug/kg	0.96	0.16	1	
sec-Butylbenzene	ND	ug/kg	0.96	0.14	1	
tert-Butylbenzene	ND	ug/kg	1.9	0.11	1	
o-Chlorotoluene	ND	ug/kg	1.9	0.18	1	
p-Chlorotoluene	ND	ug/kg	1.9	0.10	1	
1,2-Dibromo-3-chloropropane	ND	ug/kg	2.9	0.96	1	
Hexachlorobutadiene	ND	ug/kg	3.8	0.16	1	
Isopropylbenzene	ND	ug/kg	0.96	0.10	1	
p-Isopropyltoluene	ND	ug/kg	0.96	0.10	1	
Naphthalene	ND	ug/kg	3.8	0.62	1	
Acrylonitrile	ND	ug/kg	3.8	1.1	1	



Project Name: NUHART EAST

Lab Number: L2319884

Project Number: 0201891

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-03	Date Collected:	04/13/23 14:45
Client ID:	EP-53 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	77	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/18/23 08:17
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):	01-03		Batch:	WG1768117-5	
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/18/23 08:17
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):		01-03	Batch:	WG1768117-5	
1,2-Dichlorobenzene	ND	ug/kg	2.0	0.14	
1,3-Dichlorobenzene	ND	ug/kg	2.0	0.15	
1,4-Dichlorobenzene	ND	ug/kg	2.0	0.17	
Methyl tert butyl ether	ND	ug/kg	2.0	0.20	
p/m-Xylene	ND	ug/kg	2.0	0.56	
o-Xylene	ND	ug/kg	1.0	0.29	
Xylenes, Total	ND	ug/kg	1.0	0.29	
cis-1,2-Dichloroethene	ND	ug/kg	1.0	0.18	
1,2-Dichloroethene, Total	ND	ug/kg	1.0	0.14	
Dibromomethane	ND	ug/kg	2.0	0.24	
Styrene	ND	ug/kg	1.0	0.20	
Dichlorodifluoromethane	ND	ug/kg	10	0.92	
Acetone	ND	ug/kg	10	4.8	
Carbon disulfide	ND	ug/kg	10	4.6	
2-Butanone	ND	ug/kg	10	2.2	
Vinyl acetate	ND	ug/kg	10	2.2	
4-Methyl-2-pentanone	ND	ug/kg	10	1.3	
1,2,3-Trichloropropane	ND	ug/kg	2.0	0.13	
2-Hexanone	ND	ug/kg	10	1.2	
Bromochloromethane	ND	ug/kg	2.0	0.20	
2,2-Dichloropropane	ND	ug/kg	2.0	0.20	
1,2-Dibromoethane	ND	ug/kg	1.0	0.28	
1,3-Dichloropropane	ND	ug/kg	2.0	0.17	
1,1,1,2-Tetrachloroethane	ND	ug/kg	0.50	0.13	
Bromobenzene	ND	ug/kg	2.0	0.14	
n-Butylbenzene	ND	ug/kg	1.0	0.17	
sec-Butylbenzene	ND	ug/kg	1.0	0.15	
tert-Butylbenzene	ND	ug/kg	2.0	0.12	
o-Chlorotoluene	ND	ug/kg	2.0	0.19	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/18/23 08:17
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):	01-03		Batch:	WG1768117-5	
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1768117-3 WG1768117-4								
Methylene chloride	95		97		70-130	2		30
1,1-Dichloroethane	104		106		70-130	2		30
Chloroform	102		104		70-130	2		30
Carbon tetrachloride	104		105		70-130	1		30
1,2-Dichloropropane	102		104		70-130	2		30
Dibromochloromethane	99		100		70-130	1		30
1,1,2-Trichloroethane	97		99		70-130	2		30
Tetrachloroethene	107		107		70-130	0		30
Chlorobenzene	103		105		70-130	2		30
Trichlorofluoromethane	104		107		70-139	3		30
1,2-Dichloroethane	96		98		70-130	2		30
1,1,1-Trichloroethane	106		108		70-130	2		30
Bromodichloromethane	100		102		70-130	2		30
trans-1,3-Dichloropropene	101		102		70-130	1		30
cis-1,3-Dichloropropene	104		106		70-130	2		30
1,1-Dichloropropene	109		110		70-130	1		30
Bromoform	96		97		70-130	1		30
1,1,2,2-Tetrachloroethane	93		95		70-130	2		30
Benzene	104		106		70-130	2		30
Toluene	104		106		70-130	2		30
Ethylbenzene	107		108		70-130	1		30
Chloromethane	102		104		52-130	2		30
Bromomethane	117		118		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1768117-3 WG1768117-4								
Vinyl chloride	110		111		67-130	1		30
Chloroethane	115		118		50-151	3		30
1,1-Dichloroethene	107		109		65-135	2		30
trans-1,2-Dichloroethene	107		107		70-130	0		30
Trichloroethene	106		109		70-130	3		30
1,2-Dichlorobenzene	102		104		70-130	2		30
1,3-Dichlorobenzene	105		106		70-130	1		30
1,4-Dichlorobenzene	101		104		70-130	3		30
Methyl tert butyl ether	94		96		66-130	2		30
p/m-Xylene	107		108		70-130	1		30
o-Xylene	105		107		70-130	2		30
cis-1,2-Dichloroethene	101		107		70-130	6		30
Dibromomethane	97		99		70-130	2		30
Styrene	108		110		70-130	2		30
Dichlorodifluoromethane	103		104		30-146	1		30
Acetone	85		89		54-140	5		30
Carbon disulfide	103		104		59-130	1		30
2-Butanone	78		70		70-130	11		30
Vinyl acetate	87		85		70-130	2		30
4-Methyl-2-pentanone	92		93		70-130	1		30
1,2,3-Trichloropropane	92		93		68-130	1		30
2-Hexanone	86		89		70-130	3		30
Bromochloromethane	101		101		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1768117-3 WG1768117-4								
2,2-Dichloropropane	108		106		70-130	2		30
1,2-Dibromoethane	101		102		70-130	1		30
1,3-Dichloropropane	98		100		69-130	2		30
1,1,1,2-Tetrachloroethane	102		104		70-130	2		30
Bromobenzene	100		101		70-130	1		30
n-Butylbenzene	108		110		70-130	2		30
sec-Butylbenzene	106		108		70-130	2		30
tert-Butylbenzene	106		108		70-130	2		30
o-Chlorotoluene	105		106		70-130	1		30
p-Chlorotoluene	103		104		70-130	1		30
1,2-Dibromo-3-chloropropane	91		91		68-130	0		30
Hexachlorobutadiene	107		107		67-130	0		30
Isopropylbenzene	106		107		70-130	1		30
p-Isopropyltoluene	107		109		70-130	2		30
Naphthalene	96		97		70-130	1		30
Acrylonitrile	79		84		70-130	6		30
n-Propylbenzene	108		110		70-130	2		30
1,2,3-Trichlorobenzene	103		104		70-130	1		30
1,2,4-Trichlorobenzene	104		106		70-130	2		30
1,3,5-Trimethylbenzene	104		106		70-130	2		30
1,2,4-Trimethylbenzene	105		107		70-130	2		30
1,4-Dioxane	92		93		65-136	1		30
p-Diethylbenzene	108		110		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1768117-3 WG1768117-4								
p-Ethyltoluene	108		109		70-130	1		30
1,2,4,5-Tetramethylbenzene	106		108		70-130	2		30
Ethyl ether	95		98		67-130	3		30
trans-1,4-Dichloro-2-butene	100		101		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		93		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	97		97		70-130

SEMIVOLATILES



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-01	Date Collected:	04/13/23 14:35
Client ID:	EP-51 (8')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	04/18/23 07:53
Analytical Date:	04/20/23 05:48		
Analyst:	LJG		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND	ug/kg	160	21.	1	
1,2,4-Trichlorobenzene	ND	ug/kg	200	23.	1	
Hexachlorobenzene	ND	ug/kg	120	22.	1	
Bis(2-chloroethyl)ether	ND	ug/kg	180	27.	1	
2-Chloronaphthalene	ND	ug/kg	200	20.	1	
1,2-Dichlorobenzene	ND	ug/kg	200	36.	1	
1,3-Dichlorobenzene	ND	ug/kg	200	34.	1	
1,4-Dichlorobenzene	ND	ug/kg	200	35.	1	
3,3'-Dichlorobenzidine	ND	ug/kg	200	53.	1	
2,4-Dinitrotoluene	ND	ug/kg	200	40.	1	
2,6-Dinitrotoluene	ND	ug/kg	200	34.	1	
Fluoranthene	ND	ug/kg	120	23.	1	
4-Chlorophenyl phenyl ether	ND	ug/kg	200	21.	1	
4-Bromophenyl phenyl ether	ND	ug/kg	200	30.	1	
Bis(2-chloroisopropyl)ether	ND	ug/kg	240	34.	1	
Bis(2-chloroethoxy)methane	ND	ug/kg	220	20.	1	
Hexachlorobutadiene	ND	ug/kg	200	29.	1	
Hexachlorocyclopentadiene	ND	ug/kg	570	180	1	
Hexachloroethane	ND	ug/kg	160	32.	1	
Isophorone	ND	ug/kg	180	26.	1	
Naphthalene	ND	ug/kg	200	24.	1	
Nitrobenzene	ND	ug/kg	180	30.	1	
NDPA/DPA	ND	ug/kg	160	23.	1	
n-Nitrosodi-n-propylamine	ND	ug/kg	200	31.	1	
Bis(2-ethylhexyl)phthalate	ND	ug/kg	200	69.	1	
Butyl benzyl phthalate	ND	ug/kg	200	50.	1	
Di-n-butylphthalate	ND	ug/kg	200	38.	1	
Di-n-octylphthalate	ND	ug/kg	200	68.	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-01	Date Collected:	04/13/23 14:35
Client ID:	EP-51 (8')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND	ug/kg	200	18.	1	
Dimethyl phthalate	ND	ug/kg	200	42.	1	
Benzo(a)anthracene	ND	ug/kg	120	22.	1	
Benzo(a)pyrene	ND	ug/kg	160	49.	1	
Benzo(b)fluoranthene	ND	ug/kg	120	34.	1	
Benzo(k)fluoranthene	ND	ug/kg	120	32.	1	
Chrysene	ND	ug/kg	120	21.	1	
Acenaphthylene	ND	ug/kg	160	31.	1	
Anthracene	ND	ug/kg	120	39.	1	
Benzo(ghi)perylene	ND	ug/kg	160	24.	1	
Fluorene	ND	ug/kg	200	19.	1	
Phenanthrene	ND	ug/kg	120	24.	1	
Dibenzo(a,h)anthracene	ND	ug/kg	120	23.	1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	160	28.	1	
Pyrene	ND	ug/kg	120	20.	1	
Biphenyl	ND	ug/kg	460	26.	1	
4-Chloroaniline	ND	ug/kg	200	36.	1	
2-Nitroaniline	ND	ug/kg	200	38.	1	
3-Nitroaniline	ND	ug/kg	200	38.	1	
4-Nitroaniline	ND	ug/kg	200	83.	1	
Dibenzofuran	ND	ug/kg	200	19.	1	
2-Methylnaphthalene	ND	ug/kg	240	24.	1	
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	200	21.	1	
Acetophenone	ND	ug/kg	200	25.	1	
2,4,6-Trichlorophenol	ND	ug/kg	120	38.	1	
p-Chloro-m-cresol	ND	ug/kg	200	30.	1	
2-Chlorophenol	ND	ug/kg	200	24.	1	
2,4-Dichlorophenol	ND	ug/kg	180	32.	1	
2,4-Dimethylphenol	ND	ug/kg	200	66.	1	
2-Nitrophenol	ND	ug/kg	430	75.	1	
4-Nitrophenol	ND	ug/kg	280	82.	1	
2,4-Dinitrophenol	ND	ug/kg	960	93.	1	
4,6-Dinitro-o-cresol	ND	ug/kg	520	96.	1	
Pentachlorophenol	ND	ug/kg	160	44.	1	
Phenol	ND	ug/kg	200	30.	1	
2-Methylphenol	ND	ug/kg	200	31.	1	
3-Methylphenol/4-Methylphenol	ND	ug/kg	290	31.	1	



Project Name: NUHART EAST

Lab Number: L2319884

Project Number: 0201891

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-01	Date Collected:	04/13/23 14:35
Client ID:	EP-51 (8')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	61		18-120

Project Name: NUHART EAST

Lab Number: L2319884

Project Number: 0201891

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-01	RE	Date Collected:	04/13/23 14:35
Client ID:	EP-51 (8')		Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	ALPHA 23528
Analytical Method:	134,LCMSMS-ID	Extraction Date:	04/19/23 17:40
Analytical Date:	04/24/23 12:13		
Analyst:	JW		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	2.03	0.397	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	4.05	1.54	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	4.05	1.65	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	8.10	2.11	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	8.10	2.96	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		53		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		73		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		73		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		63		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		61		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID: L2319884-01 RE
Client ID: EP-51 (8')
Sample Location: 47 DUPONT STREET, BROOKLYN, NY

Date Collected: 04/13/23 14:35
Date Received: 04/13/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/24/23 17:44
Analyst: RS
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 04/19/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.324	J	ng/g	2.03	0.092	1
Perfluoropentanoic Acid (PFPeA)	0.203	J	ng/g	2.03	0.186	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	1.01	0.158	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	4.05	0.261	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	2.03	0.213	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	4.05	0.338	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	1.01	0.183	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	1.01	0.245	1
Perfluoroctanoic Acid (PFOA)	ND		ng/g	1.01	0.170	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	2.03	0.727	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	2.03	0.553	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	1.01	0.304	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	1.01	0.527	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	1.01	0.272	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	2.03	1.16	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	4.05	1.21	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	2.03	0.817	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	2.03	0.190	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	2.03	0.620	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	2.03	0.342	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	2.03	0.284	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	2.03	0.829	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	2.03	0.219	1
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND		ng/g	40.5	15.4	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	4.05	0.167	1
Perfluorohexadecanoic Acid (PFHxDA)	ND		ng/g	10.1	0.486	1
Perfluoroctadecanoic Acid (PFODA)	ND		ng/g	10.1	0.693	1

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-01	RE	Date Collected:	04/13/23 14:35
Client ID:	EP-51 (8')		Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	4.05	0.348	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	4.05	1.11	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	4.05	0.152	1
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	4.05	0.157	1
Perfluoropropane Sulfonic Acid (PFPoS)	ND		ng/g	4.05	0.812	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	4.05	0.608	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	4.05	0.681	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	4.05	0.906	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	4.05	0.614	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	66		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	72		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	97		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	80		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	113		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	79		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	69	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	122		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	50		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	66		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	81		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	64		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	53		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	104		50-150



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-02	Date Collected:	04/13/23 14:40
Client ID:	EP-52 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	04/18/23 07:53
Analytical Date:	04/20/23 02:13		
Analyst:	LJG		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND	ug/kg	160	20.	1	
1,2,4-Trichlorobenzene	ND	ug/kg	200	22.	1	
Hexachlorobenzene	ND	ug/kg	120	22.	1	
Bis(2-chloroethyl)ether	ND	ug/kg	180	27.	1	
2-Chloronaphthalene	ND	ug/kg	200	19.	1	
1,2-Dichlorobenzene	ND	ug/kg	200	35.	1	
1,3-Dichlorobenzene	ND	ug/kg	200	34.	1	
1,4-Dichlorobenzene	ND	ug/kg	200	34.	1	
3,3'-Dichlorobenzidine	ND	ug/kg	200	52.	1	
2,4-Dinitrotoluene	ND	ug/kg	200	39.	1	
2,6-Dinitrotoluene	ND	ug/kg	200	34.	1	
Fluoranthene	ND	ug/kg	120	22.	1	
4-Chlorophenyl phenyl ether	ND	ug/kg	200	21.	1	
4-Bromophenyl phenyl ether	ND	ug/kg	200	30.	1	
Bis(2-chloroisopropyl)ether	ND	ug/kg	240	34.	1	
Bis(2-chloroethoxy)methane	ND	ug/kg	210	20.	1	
Hexachlorobutadiene	ND	ug/kg	200	29.	1	
Hexachlorocyclopentadiene	ND	ug/kg	560	180	1	
Hexachloroethane	ND	ug/kg	160	32.	1	
Isophorone	ND	ug/kg	180	26.	1	
Naphthalene	ND	ug/kg	200	24.	1	
Nitrobenzene	ND	ug/kg	180	29.	1	
NDPA/DPA	ND	ug/kg	160	22.	1	
n-Nitrosodi-n-propylamine	ND	ug/kg	200	30.	1	
Bis(2-ethylhexyl)phthalate	ND	ug/kg	200	68.	1	
Butyl benzyl phthalate	ND	ug/kg	200	50.	1	
Di-n-butylphthalate	ND	ug/kg	200	37.	1	
Di-n-octylphthalate	ND	ug/kg	200	67.	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-02	Date Collected:	04/13/23 14:40
Client ID:	EP-52 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND	ug/kg	200	18.	1	
Dimethyl phthalate	ND	ug/kg	200	41.	1	
Benzo(a)anthracene	ND	ug/kg	120	22.	1	
Benzo(a)pyrene	ND	ug/kg	160	48.	1	
Benzo(b)fluoranthene	ND	ug/kg	120	33.	1	
Benzo(k)fluoranthene	ND	ug/kg	120	31.	1	
Chrysene	ND	ug/kg	120	20.	1	
Acenaphthylene	ND	ug/kg	160	30.	1	
Anthracene	ND	ug/kg	120	38.	1	
Benzo(ghi)perylene	ND	ug/kg	160	23.	1	
Fluorene	ND	ug/kg	200	19.	1	
Phenanthrene	ND	ug/kg	120	24.	1	
Dibenzo(a,h)anthracene	ND	ug/kg	120	23.	1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	160	27.	1	
Pyrene	ND	ug/kg	120	20.	1	
Biphenyl	ND	ug/kg	450	26.	1	
4-Chloroaniline	ND	ug/kg	200	36.	1	
2-Nitroaniline	ND	ug/kg	200	38.	1	
3-Nitroaniline	ND	ug/kg	200	37.	1	
4-Nitroaniline	ND	ug/kg	200	81.	1	
Dibenzofuran	ND	ug/kg	200	18.	1	
2-Methylnaphthalene	ND	ug/kg	240	24.	1	
1,2,4,5-Tetrachlorobenzene	ND	ug/kg	200	20.	1	
Acetophenone	ND	ug/kg	200	24.	1	
2,4,6-Trichlorophenol	ND	ug/kg	120	37.	1	
p-Chloro-m-cresol	ND	ug/kg	200	29.	1	
2-Chlorophenol	ND	ug/kg	200	23.	1	
2,4-Dichlorophenol	ND	ug/kg	180	32.	1	
2,4-Dimethylphenol	ND	ug/kg	200	65.	1	
2-Nitrophenol	ND	ug/kg	420	74.	1	
4-Nitrophenol	ND	ug/kg	280	80.	1	
2,4-Dinitrophenol	ND	ug/kg	940	92.	1	
4,6-Dinitro-o-cresol	ND	ug/kg	510	94.	1	
Pentachlorophenol	ND	ug/kg	160	43.	1	
Phenol	ND	ug/kg	200	30.	1	
2-Methylphenol	ND	ug/kg	200	30.	1	
3-Methylphenol/4-Methylphenol	ND	ug/kg	280	31.	1	



Project Name: NUHART EAST

Lab Number: L2319884

Project Number: 0201891

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-02	Date Collected:	04/13/23 14:40
Client ID:	EP-52 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	64		18-120

Project Name: NUHART EAST

Lab Number: L2319884

Project Number: 0201891

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-02	RE	Date Collected:	04/13/23 14:40
Client ID:	EP-52 (6')		Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	ALPHA 23528
Analytical Method:	134,LCMSMS-ID	Extraction Date:	04/19/23 17:40
Analytical Date:	04/24/23 12:20		
Analyst:	JW		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	1.79	0.350	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	3.57	1.35	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	3.57	1.46	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	7.15	1.86	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	7.15	2.61	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		46		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		67		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		68		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		58		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		55		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID: L2319884-02 RE
Client ID: EP-52 (6')
Sample Location: 47 DUPONT STREET, BROOKLYN, NY

Date Collected: 04/13/23 14:40
Date Received: 04/13/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/24/23 18:00
Analyst: RS
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 04/19/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.161	J	ng/g	1.79	0.081	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	1.79	0.164	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.894	0.139	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	3.57	0.230	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	1.79	0.188	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	3.57	0.298	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.894	0.161	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.894	0.216	1
Perfluoroctanoic Acid (PFOA)	ND		ng/g	0.894	0.150	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	1.79	0.642	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	1.79	0.488	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.894	0.268	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.894	0.465	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.894	0.240	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	1.79	1.03	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	3.57	1.07	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.79	0.720	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	1.79	0.167	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	1.79	0.547	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.79	0.302	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	1.79	0.250	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.79	0.731	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.79	0.193	1
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND		ng/g	35.7	13.6	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	3.57	0.148	1
Perfluorohexadecanoic Acid (PFHxDA)	ND		ng/g	8.94	0.429	1
Perfluoroctadecanoic Acid (PFODA)	ND		ng/g	8.94	0.611	1

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-02	RE	Date Collected:	04/13/23 14:40
Client ID:	EP-52 (6')		Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	3.57	0.307	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	3.57	0.983	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	3.57	0.134	1
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	3.57	0.139	1
Perfluoropropane Sulfonic Acid (PFPsS)	ND		ng/g	3.57	0.717	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	3.57	0.536	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	3.57	0.600	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	3.57	0.799	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	3.57	0.542	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	83		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	88		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	115		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	135		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	78		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	80		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	114		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	115		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	66		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	80		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	158	Q	50-150



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-03	Date Collected:	04/13/23 14:45
Client ID:	EP-53 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	04/18/23 07:53
Analytical Date:	04/20/23 07:00		
Analyst:	LJG		
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	68	J	ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-03	Date Collected:	04/13/23 14:45
Client ID:	EP-53 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	27	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	26	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	61	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	60	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1



Project Name: NUHART EAST

Lab Number: L2319884

Project Number: 0201891

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-03	Date Collected:	04/13/23 14:45
Client ID:	EP-53 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	65		18-120

Project Name: NUHART EAST

Lab Number: L2319884

Project Number: 0201891

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-03	RE	Date Collected:	04/13/23 14:45
Client ID:	EP-53 (6')		Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	ALPHA 23528
Analytical Method:	134,LCMSMS-ID	Extraction Date:	04/19/23 17:40
Analytical Date:	04/24/23 12:26		
Analyst:	JW		
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	1.62	0.318	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	3.25	1.23	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	3.25	1.32	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	6.50	1.69	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	6.50	2.37	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		54		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		72		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		74		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		66		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		60		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID: L2319884-03 RE
Client ID: EP-53 (6')
Sample Location: 47 DUPONT STREET, BROOKLYN, NY

Date Collected: 04/13/23 14:45
Date Received: 04/13/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/24/23 18:16
Analyst: RS
Percent Solids: 83%

Extraction Method: ALPHA 23528
Extraction Date: 04/19/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.374	J	ng/g	1.62	0.074	1
Perfluoropentanoic Acid (PFPeA)	0.292	J	ng/g	1.62	0.149	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.812	0.127	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	3.25	0.210	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	1.62	0.170	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	3.25	0.271	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.812	0.146	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.812	0.196	1
Perfluoroctanoic Acid (PFOA)	ND		ng/g	0.812	0.136	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	1.62	0.583	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	1.62	0.443	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.812	0.244	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.812	0.422	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.812	0.218	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	1.62	0.932	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	3.25	0.971	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.62	0.654	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	1.62	0.152	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	1.62	0.497	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.62	0.274	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	1.62	0.227	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.62	0.664	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.62	0.175	1
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND		ng/g	32.5	12.4	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	3.25	0.134	1
Perfluorohexadecanoic Acid (PFHxDA)	ND		ng/g	8.12	0.390	1
Perfluoroctadecanoic Acid (PFODA)	ND		ng/g	8.12	0.555	1

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-03	RE	Date Collected:	04/13/23 14:45
Client ID:	EP-53 (6')		Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	3.25	0.279	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	3.25	0.893	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	3.25	0.121	1
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	3.25	0.126	1
Perfluoropropane Sulfonic Acid (PFPsS)	ND		ng/g	3.25	0.651	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	3.25	0.487	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	3.25	0.546	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	3.25	0.726	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	3.25	0.492	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	22	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	30	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	54	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	55		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	43	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	44	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	68	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	62	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	95		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	66	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	159		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	53		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	71		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	71		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	84		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	23		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	53		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	155	Q	50-150



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/19/23 09:42
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 04/18/23 07:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s):	01-03		Batch:	WG1767990-1	
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/19/23 09:42
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 04/18/23 07:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s):	01-03		Batch:	WG1767990-1	
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/19/23 09:42
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 04/18/23 07:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03				Batch: WG1767990-1	
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	91		18-120



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/24/23 12:01
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 04/19/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03				Batch:	WG1768618-1
Perfluoroctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.00	0.379
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.00	0.407
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.00	0.520
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.00	0.730

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	56		5-117
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	71		10-146
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	76		10-145
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)	63		10-146
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)	61		10-129

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/24/23 17:11
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 04/19/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s):	01-03			Batch:	WG1768618-1
Perfluorobutanoic Acid (PFBA)	0.060	J	ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	0.080	J	ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	1.00	0.065
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	1.00	0.084
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	1.00	0.299
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND		ng/g	10.0	3.81
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	1.00	0.041
Perfluorohexadecanoic Acid (PFHxDA)	ND		ng/g	2.50	0.120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/24/23 17:11
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 04/19/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s):	01-03			Batch:	WG1768618-1
Perfluoroctadecanoic Acid (PFODA)	ND		ng/g	2.50	0.171
Perfluorododecane Sulfonic Acid (PFDsDS)	ND		ng/g	1.00	0.086
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.00	0.275
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.00	0.037
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	1.00	0.039
Perfluoropropene Sulfonic Acid (PFPrS)	ND		ng/g	1.00	0.200
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.00	0.150
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.00	0.168
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.00	0.224
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.00	0.152

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/24/23 17:11
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 04/19/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03				Batch: WG1768618-1	

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	83		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	85		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	117		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	128		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	83		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	84		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	66	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	141		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	71		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	66		61-155
N-Deuteroethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	92		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	67		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	71		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	54		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	124		50-150



Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1767990-2 WG1767990-3								
Acenaphthene	76		75		31-137	1		50
1,2,4-Trichlorobenzene	70		73		38-107	4		50
Hexachlorobenzene	81		80		40-140	1		50
Bis(2-chloroethyl)ether	67		67		40-140	0		50
2-Chloronaphthalene	70		73		40-140	4		50
1,2-Dichlorobenzene	70		68		40-140	3		50
1,3-Dichlorobenzene	69		68		40-140	1		50
1,4-Dichlorobenzene	67		66		28-104	2		50
3,3'-Dichlorobenzidine	70		69		40-140	1		50
2,4-Dinitrotoluene	77		71		40-132	8		50
2,6-Dinitrotoluene	68		69		40-140	1		50
Fluoranthene	79		74		40-140	7		50
4-Chlorophenyl phenyl ether	77		78		40-140	1		50
4-Bromophenyl phenyl ether	78		82		40-140	5		50
Bis(2-chloroisopropyl)ether	64		67		40-140	5		50
Bis(2-chloroethoxy)methane	68		71		40-117	4		50
Hexachlorobutadiene	73		76		40-140	4		50
Hexachlorocyclopentadiene	164	Q	173	Q	40-140	5		50
Hexachloroethane	63		60		40-140	5		50
Isophorone	63		66		40-140	5		50
Naphthalene	69		69		40-140	0		50
Nitrobenzene	66		65		40-140	2		50
NDPA/DPA	78		76		36-157	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1767990-2 WG1767990-3								
n-Nitrosodi-n-propylamine	68		71		32-121	4		50
Bis(2-ethylhexyl)phthalate	68		77		40-140	12		50
Butyl benzyl phthalate	71		74		40-140	4		50
Di-n-butylphthalate	71		76		40-140	7		50
Di-n-octylphthalate	73		81		40-140	10		50
Diethyl phthalate	72		73		40-140	1		50
Dimethyl phthalate	67		71		40-140	6		50
Benzo(a)anthracene	81		78		40-140	4		50
Benzo(a)pyrene	98		92		40-140	6		50
Benzo(b)fluoranthene	93		84		40-140	10		50
Benzo(k)fluoranthene	89		88		40-140	1		50
Chrysene	80		78		40-140	3		50
Acenaphthylene	74		75		40-140	1		50
Anthracene	79		78		40-140	1		50
Benzo(ghi)perylene	92		86		40-140	7		50
Fluorene	76		74		40-140	3		50
Phenanthrene	79		76		40-140	4		50
Dibenzo(a,h)anthracene	88		84		40-140	5		50
Indeno(1,2,3-cd)pyrene	92		86		40-140	7		50
Pyrene	80		74		35-142	8		50
Biphenyl	74		78		37-127	5		50
4-Chloroaniline	44		44		40-140	0		50
2-Nitroaniline	72		70		47-134	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1767990-2 WG1767990-3								
3-Nitroaniline	55		51		26-129	8		50
4-Nitroaniline	79		72		41-125	9		50
Dibenzofuran	79		78		40-140	1		50
2-Methylnaphthalene	75		78		40-140	4		50
1,2,4,5-Tetrachlorobenzene	76		78		40-117	3		50
Acetophenone	73		72		14-144	1		50
2,4,6-Trichlorophenol	77		79		30-130	3		50
p-Chloro-m-cresol	73		68		26-103	7		50
2-Chlorophenol	70		71		25-102	1		50
2,4-Dichlorophenol	74		73		30-130	1		50
2,4-Dimethylphenol	68		69		30-130	1		50
2-Nitrophenol	72		73		30-130	1		50
4-Nitrophenol	89		81		11-114	9		50
2,4-Dinitrophenol	32		30		4-130	6		50
4,6-Dinitro-o-cresol	76		74		10-130	3		50
Pentachlorophenol	70		72		17-109	3		50
Phenol	70		69		26-90	1		50
2-Methylphenol	68		66		30-130.	3		50
3-Methylphenol/4-Methylphenol	70		68		30-130	3		50
2,4,5-Trichlorophenol	76		78		30-130	3		50
Benzoic Acid	0	Q	0	Q	10-110	NC		50
Benzyl Alcohol	72		72		40-140	0		50
Carbazole	82		76		54-128	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1767990-2 WG1767990-3								
1,4-Dioxane	52		48		40-140	8		50

Surrogate	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	Acceptance Criteria
2-Fluorophenol	77		74		25-120
Phenol-d6	74		71		10-120
Nitrobenzene-d5	68		68		23-120
2-Fluorobiphenyl	77		79		30-120
2,4,6-Tribromophenol	88		90		10-136
4-Terphenyl-d14	85		81		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1768618-2								
Perfluoroctanesulfonamide (FOSA)	110		-		67-137	-		30
N-Methyl Perfluoroctane Sulfonamide (NMeFOSA)	98		-		62-149	-		30
N-Ethyl Perfluoroctane Sulfonamide (NEtFOSA)	102		-		71-156	-		30
N-Methyl Perfluoroctanesulfonamido Ethanol (NMeFOSE)	95		-		10-239	-		30
N-Ethyl Perfluoroctanesulfonamido Ethanol (NEtFOSE)	117		-		10-275	-		30

Surrogate (Extracted Internal Standard)	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	50				5-117
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	78				10-146
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	79				10-145
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)	66				10-146
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)	61				10-129

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1768618-2								
Perfluorobutanoic Acid (PFBA)	98		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	126		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	116		-		72-128	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	107		-		62-145	-		30
Perfluorohexanoic Acid (PFHxA)	123		-		70-132	-		30
Perfluoropentanesulfonic Acid (PFPeS)	107		-		73-123	-		30
Perfluoroheptanoic Acid (PFHpA)	125		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	101		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	114		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	107		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	110		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	95		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	93		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	118		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	101		-		65-137	-		30
Perfluorononanesulfonic Acid (PFNS)	118		-		69-125	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	127		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	119		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	129		-		59-134	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	112		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	120		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	121		-		66-139	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1768618-2								
Perfluorotetradecanoic Acid (PFTA)	123		-		69-133	-		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	128		-		41-165	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	129		-		61-135	-		30
Perfluorohexadecanoic Acid (PFHxDA)	117		-		18-191	-		30
Perfluoroctadecanoic Acid (PFODA)	12		-		10-123	-		30
Perfluorododecane Sulfonic Acid (PFDoDS)	129	Q	-		36-118	-		30
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	114		-		37-261	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	110		-		69-139	-		30
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	127		-		51-155	-		30
Perfluoropropane Sulfonic Acid (PFPrS)	138		-		50-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	126		-		50-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	132		-		50-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	101		-		50-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	75		-		50-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1768618-2								
<i>Surrogate (Extracted Internal Standard)</i>	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>Acceptance Criteria</i>			
Perfluoro[13C4]Butanoic Acid (MPFBA)	99				61-135			
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94				58-150			
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85				74-139			
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	94				14-167			
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99				66-128			
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHxA)	94				71-129			
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96				78-139			
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94				75-130			
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	123				20-154			
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90				72-140			
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92				79-136			
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80				75-130			
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	141				19-175			
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	90				31-134			
Perfluoro[1,2,3,4,6,7-13C7]Undecanoic Acid (M7-PFDA)	78				61-155			
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	124				34-137			
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90				54-150			
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	112				24-159			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	66				10-203			
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	78				10-145			
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	153	Q			50-150			

Matrix Spike Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual	Limits	RPD	RPD Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1768618-3 QC Sample: L2320767-04 Client ID: MS Sample												
Perfluorobutanesulfonic Acid (PFBS)	ND	4.6	4.99	108		-	-		72-128	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.86	5.49	113		-	-		62-145	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.88	5.01	103		-	-		73-123	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.74	5.03	106		-	-		67-130	-		30
Perfluoroctanoic Acid (PFOA)	0.112J	5.18	5.89	111		-	-		69-133	-		30
1H,1H,2H,2H-Perfluoroctanesulfonic Acid (6:2FTS)	ND	4.94	5.42	110		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHps)	ND	4.95	5.44	110		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	5.18	5.34	103		-	-		72-129	-		30
Perfluoroctanesulfonic Acid (PFOS)	1.41	4.81	6.34	102		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	5.18	6.86	132		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.98	5.64	113		-	-		65-137	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	4.99	5.31	106		-	-		69-125	-		30
N-Methyl Perfluoroctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.18	3.09F	60	Q	-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.18	5.21	100		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.01	5.16	103		-	-		59-134	-		30
Perfluorododecanoic Acid (PFDoA)	ND	5.18	4.86	94		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.18	5.19	100		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.18	6.27F	121		-	-		69-133	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	4.9	0.627JF	13	Q	-	-		61-135	-		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	5.18	6.02	116		-	-		18-191	-		30
Perfluooctadecanoic Acid (PFODA)	ND	5.18	3.35F	65		-	-		10-123	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual	Limits	RPD RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1768618-3 QC Sample: L2320767-04 Client ID: MS Sample												
Surrogate (Extracted Internal Standard)												
			MS % Recovery	Qualifier		MSD % Recovery	Qualifier		Acceptance Criteria			
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)			79						19-175			
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)			62						14-167			
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)			70						20-154			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)			4	Q					10-203			
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)			2	Q					31-134			
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)			44	Q					61-155			
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)			34	Q					75-130			
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)			4	Q					66-128			
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)			8	Q					71-129			
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)			82						78-139			
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)			62						54-150			
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)			65						24-159			
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)			61						10-145			
Perfluoro[13C4]Butanoic Acid (MPFBA)			2	Q					61-135			
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)			2	Q					58-150			
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)			83						79-136			
Perfluoro[13C8]Octanoic Acid (M8PFOA)			17	Q					75-130			
Perfluoro[13C9]Nonanoic Acid (M9PFNA)			28	Q					72-140			
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)			79						74-139			

Lab Duplicate Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
- Associated sample(s): 01-03 QC Batch ID: WG1768618-4 QC Sample: L2320767-05 Client ID: DUP Sample						
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/g	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/g	NC		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
- Associated sample(s): 01-03 QC Batch ID: WG1768618-4 QC Sample: L2320767-05 Client ID: DUP Sample						
Perfluoroctadecanoic Acid (PFODA)	ND	ND	ng/g	NC		30
Surrogate (Extracted Internal Standard)		%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	2	Q	5	Q		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	2	Q	5	Q		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	73	Q	72	Q		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	53		50			14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	3	Q	5	Q		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHxA)	6	Q	8	Q		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	72	Q	74	Q		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	12	Q	14	Q		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	60		60			20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	22	Q	21	Q		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	73	Q	73	Q		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	31	Q	25	Q		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	81		71			19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	1	Q	1	Q		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	37	Q	38	Q		61-155
N-Deuteroethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	2	Q	2	Q		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDCA)	42	Q	41	Q		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	44		56			24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	3	Q	8	Q		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	43		43			10-145

PCBS



Project Name: NUHART EAST

Lab Number: L2319884

Project Number: 0201891

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-01	Date Collected:	04/13/23 14:35
Client ID:	EP-51 (8')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	04/18/23 09:10
Analytical Date:	04/19/23 09:29	Cleanup Method:	EPA 3665A
Analyst:	JM	Cleanup Date:	04/18/23
Percent Solids:	81%	Cleanup Method:	EPA 3660B
		Cleanup Date:	04/18/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.7	3.61	1	A
Aroclor 1221	ND		ug/kg	40.7	4.08	1	A
Aroclor 1232	ND		ug/kg	40.7	8.62	1	A
Aroclor 1242	ND		ug/kg	40.7	5.48	1	A
Aroclor 1248	ND		ug/kg	40.7	6.10	1	A
Aroclor 1254	ND		ug/kg	40.7	4.45	1	A
Aroclor 1260	ND		ug/kg	40.7	7.52	1	A
Aroclor 1262	ND		ug/kg	40.7	5.17	1	A
Aroclor 1268	ND		ug/kg	40.7	4.22	1	A
PCBs, Total	ND		ug/kg	40.7	3.61	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	38		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID: L2319884-02
Client ID: EP-52 (6')
Sample Location: 47 DUPONT STREET, BROOKLYN, NY

Date Collected: 04/13/23 14:40
Date Received: 04/13/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/19/23 09:42
Analyst: JM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/18/23 09:10
Cleanup Method: EPA 3665A
Cleanup Date: 04/18/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/18/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.6	3.43	1	A
Aroclor 1221	ND		ug/kg	38.6	3.87	1	A
Aroclor 1232	ND		ug/kg	38.6	8.18	1	A
Aroclor 1242	ND		ug/kg	38.6	5.20	1	A
Aroclor 1248	ND		ug/kg	38.6	5.79	1	A
Aroclor 1254	ND		ug/kg	38.6	4.22	1	A
Aroclor 1260	ND		ug/kg	38.6	7.13	1	A
Aroclor 1262	ND		ug/kg	38.6	4.90	1	A
Aroclor 1268	ND		ug/kg	38.6	4.00	1	A
PCBs, Total	ND		ug/kg	38.6	3.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: NUHART EAST

Lab Number: L2319884

Project Number: 0201891

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-03	Date Collected:	04/13/23 14:45
Client ID:	EP-53 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	04/18/23 09:10
Analytical Date:	04/19/23 09:55	Cleanup Method:	EPA 3665A
Analyst:	JM	Cleanup Date:	04/18/23
Percent Solids:	83%	Cleanup Method:	EPA 3660B
		Cleanup Date:	04/18/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND	ug/kg	38.8	3.44	1	A	
Aroclor 1221	ND	ug/kg	38.8	3.89	1	A	
Aroclor 1232	ND	ug/kg	38.8	8.22	1	A	
Aroclor 1242	ND	ug/kg	38.8	5.23	1	A	
Aroclor 1248	ND	ug/kg	38.8	5.82	1	A	
Aroclor 1254	ND	ug/kg	38.8	4.24	1	A	
Aroclor 1260	ND	ug/kg	38.8	7.17	1	A	
Aroclor 1262	ND	ug/kg	38.8	4.93	1	A	
Aroclor 1268	ND	ug/kg	38.8	4.02	1	A	
PCBs, Total	ND	ug/kg	38.8	3.44	1	A	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	45		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/19/23 07:59
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 04/18/23 09:10
Cleanup Method: EPA 3665A
Cleanup Date: 04/18/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/18/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s):	01-03		Batch:	WG1768042-1		
Aroclor 1016	ND		ug/kg	33.3	2.95	A
Aroclor 1221	ND		ug/kg	33.3	3.33	A
Aroclor 1232	ND		ug/kg	33.3	7.05	A
Aroclor 1242	ND		ug/kg	33.3	4.48	A
Aroclor 1248	ND		ug/kg	33.3	4.99	A
Aroclor 1254	ND		ug/kg	33.3	3.64	A
Aroclor 1260	ND		ug/kg	33.3	6.15	A
Aroclor 1262	ND		ug/kg	33.3	4.22	A
Aroclor 1268	ND		ug/kg	33.3	3.45	A
PCBs, Total	ND		ug/kg	33.3	2.95	A

Surrogate	%Recovery	Acceptance		
		Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	68		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>	<i>Column</i>
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1768042-2 WG1768042-3									
Aroclor 1016	58		56		40-140	4		50	A
Aroclor 1260	59		57		40-140	3		50	A

Surrogate	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	55		55		30-150	A
Decachlorobiphenyl	63		61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		51		30-150	B
Decachlorobiphenyl	65		61		30-150	B

PESTICIDES

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID: L2319884-01
Client ID: EP-51 (8')
Sample Location: 47 DUPONT STREET, BROOKLYN, NY

Date Collected: 04/13/23 14:35
Date Received: 04/13/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/19/23 16:40
Analyst: AAR
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 04/18/23 12:14
Cleanup Method: EPA 3620B
Cleanup Date: 04/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/19/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND	ug/kg	1.94	0.380	1	A	
Lindane	ND	ug/kg	0.809	0.362	1	A	
Alpha-BHC	ND	ug/kg	0.809	0.230	1	A	
Beta-BHC	ND	ug/kg	1.94	0.736	1	A	
Heptachlor	ND	ug/kg	0.971	0.435	1	A	
Aldrin	ND	ug/kg	1.94	0.684	1	A	
Heptachlor epoxide	ND	ug/kg	3.64	1.09	1	A	
Endrin	ND	ug/kg	0.809	0.332	1	A	
Endrin aldehyde	ND	ug/kg	2.43	0.849	1	A	
Endrin ketone	ND	ug/kg	1.94	0.500	1	A	
Dieldrin	ND	ug/kg	1.21	0.607	1	A	
4,4'-DDE	ND	ug/kg	1.94	0.449	1	A	
4,4'-DDD	ND	ug/kg	1.94	0.692	1	A	
4,4'-DDT	ND	ug/kg	1.94	1.56	1	A	
Endosulfan I	ND	ug/kg	1.94	0.459	1	A	
Endosulfan II	ND	ug/kg	1.94	0.649	1	A	
Endosulfan sulfate	ND	ug/kg	0.809	0.385	1	A	
Methoxychlor	ND	ug/kg	3.64	1.13	1	A	
Toxaphene	ND	ug/kg	36.4	10.2	1	A	
cis-Chlordane	ND	ug/kg	2.43	0.676	1	A	
trans-Chlordane	ND	ug/kg	2.43	0.641	1	A	
Chlordane	ND	ug/kg	16.2	6.43	1	A	

Project Name: NUHART EAST

Lab Number: L2319884

Project Number: 0201891

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-01	Date Collected:	04/13/23 14:35
Client ID:	EP-51 (8')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID: L2319884-02
Client ID: EP-52 (6')
Sample Location: 47 DUPONT STREET, BROOKLYN, NY

Date Collected: 04/13/23 14:40
Date Received: 04/13/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/19/23 16:52
Analyst: AAR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/18/23 12:14
Cleanup Method: EPA 3620B
Cleanup Date: 04/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/19/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.369	1	A
Lindane	ND		ug/kg	0.785	0.351	1	A
Alpha-BHC	ND		ug/kg	0.785	0.223	1	A
Beta-BHC	ND		ug/kg	1.88	0.715	1	A
Heptachlor	ND		ug/kg	0.942	0.422	1	A
Aldrin	ND		ug/kg	1.88	0.664	1	A
Heptachlor epoxide	ND		ug/kg	3.53	1.06	1	A
Endrin	ND		ug/kg	0.785	0.322	1	A
Endrin aldehyde	ND		ug/kg	2.36	0.824	1	A
Endrin ketone	ND		ug/kg	1.88	0.485	1	A
Dieldrin	ND		ug/kg	1.18	0.589	1	A
4,4'-DDE	ND		ug/kg	1.88	0.436	1	A
4,4'-DDD	ND		ug/kg	1.88	0.672	1	A
4,4'-DDT	ND		ug/kg	1.88	1.52	1	A
Endosulfan I	ND		ug/kg	1.88	0.445	1	A
Endosulfan II	ND		ug/kg	1.88	0.630	1	A
Endosulfan sulfate	ND		ug/kg	0.785	0.374	1	A
Methoxychlor	ND		ug/kg	3.53	1.10	1	A
Toxaphene	ND		ug/kg	35.3	9.89	1	A
cis-Chlordane	ND		ug/kg	2.36	0.656	1	A
trans-Chlordane	ND		ug/kg	2.36	0.622	1	A
Chlordane	ND		ug/kg	15.7	6.24	1	A

Project Name: NUHART EAST

Lab Number: L2319884

Project Number: 0201891

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-02	Date Collected:	04/13/23 14:40
Client ID:	EP-52 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID: L2319884-03
Client ID: EP-53 (6')
Sample Location: 47 DUPONT STREET, BROOKLYN, NY

Date Collected: 04/13/23 14:45
Date Received: 04/13/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/19/23 17:03
Analyst: AAR
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/18/23 12:14
Cleanup Method: EPA 3620B
Cleanup Date: 04/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/19/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND	ug/kg	1.83	0.358	1	A	
Lindane	ND	ug/kg	0.763	0.341	1	A	
Alpha-BHC	ND	ug/kg	0.763	0.216	1	A	
Beta-BHC	ND	ug/kg	1.83	0.694	1	A	
Heptachlor	ND	ug/kg	0.915	0.410	1	A	
Aldrin	ND	ug/kg	1.83	0.644	1	A	
Heptachlor epoxide	ND	ug/kg	3.43	1.03	1	A	
Endrin	ND	ug/kg	0.763	0.313	1	A	
Endrin aldehyde	ND	ug/kg	2.29	0.801	1	A	
Endrin ketone	ND	ug/kg	1.83	0.471	1	A	
Dieldrin	ND	ug/kg	1.14	0.572	1	A	
4,4'-DDE	ND	ug/kg	1.83	0.423	1	A	
4,4'-DDD	ND	ug/kg	1.83	0.653	1	A	
4,4'-DDT	ND	ug/kg	1.83	1.47	1	A	
Endosulfan I	ND	ug/kg	1.83	0.432	1	A	
Endosulfan II	ND	ug/kg	1.83	0.612	1	A	
Endosulfan sulfate	ND	ug/kg	0.763	0.363	1	A	
Methoxychlor	ND	ug/kg	3.43	1.07	1	A	
Toxaphene	ND	ug/kg	34.3	9.61	1	A	
cis-Chlordane	ND	ug/kg	2.29	0.638	1	A	
trans-Chlordane	ND	ug/kg	2.29	0.604	1	A	
Chlordane	ND	ug/kg	15.2	6.06	1	A	

Project Name: NUHART EAST

Lab Number: L2319884

Project Number: 0201891

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID:	L2319884-03	Date Collected:	04/13/23 14:45
Client ID:	EP-53 (6')	Date Received:	04/13/23
Sample Location:	47 DUPONT STREET, BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/19/23 06:32
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 04/18/23 12:14
Cleanup Method: EPA 3620B
Cleanup Date: 04/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/19/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s):	01-03			Batch:	WG1768155-1	
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.343	A
Aldrin	ND		ug/kg	1.53	0.539	A
Heptachlor epoxide	ND		ug/kg	2.87	0.862	A
Endrin	ND		ug/kg	0.638	0.262	A
Endrin aldehyde	ND		ug/kg	1.91	0.670	A
Endrin ketone	ND		ug/kg	1.53	0.394	A
Dieldrin	ND		ug/kg	0.957	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.546	A
4,4'-DDT	ND		ug/kg	1.53	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
Methoxychlor	ND		ug/kg	2.87	0.893	A
Toxaphene	ND		ug/kg	28.7	8.04	A
cis-Chlordane	ND		ug/kg	1.91	0.534	A
trans-Chlordane	ND		ug/kg	1.91	0.505	A
Chlordane	ND		ug/kg	12.8	5.07	A



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/19/23 06:32
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 04/18/23 12:14
Cleanup Method: EPA 3620B
Cleanup Date: 04/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/19/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03				Batch:	WG1768155-1	

Surrogate	%Recovery	Acceptance Criteria			Column
		Qualifier	Criteria	Column	
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A	
Decachlorobiphenyl	78		30-150	A	
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B	
Decachlorobiphenyl	78		30-150	B	

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1768155-2 WG1768155-3									
Delta-BHC	79		90		30-150	13		30	A
Lindane	68		76		30-150	11		30	A
Alpha-BHC	80		93		30-150	15		30	A
Beta-BHC	76		82		30-150	8		30	A
Heptachlor	76		87		30-150	13		30	A
Aldrin	72		80		30-150	11		30	A
Heptachlor epoxide	68		79		30-150	15		30	A
Endrin	71		82		30-150	14		30	A
Endrin aldehyde	47		51		30-150	8		30	A
Endrin ketone	57		65		30-150	13		30	A
Dieldrin	78		89		30-150	13		30	A
4,4'-DDE	71		81		30-150	13		30	A
4,4'-DDD	76		89		30-150	16		30	A
4,4'-DDT	73		84		30-150	14		30	A
Endosulfan I	69		79		30-150	14		30	A
Endosulfan II	70		81		30-150	15		30	A
Endosulfan sulfate	42		50		30-150	17		30	A
Methoxychlor	69		79		30-150	14		30	A
cis-Chlordane	63		69		30-150	9		30	A
trans-Chlordane	82		92		30-150	11		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	<i>LCS</i> %Recovery	Qual	<i>LCSD</i> %Recovery	Qual	%Recovery Limits	RPD	Qual	<i>RPD</i> Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1768155-2 WG1768155-3								
Surrogate	<i>LCS</i> %Recovery	Qual	<i>LCSD</i> %Recovery	Qual	<i>Acceptance</i> Criteria		Column	
2,4,5,6-Tetrachloro-m-xylene	76		87		30-150		A	
Decachlorobiphenyl	71		78		30-150		A	
2,4,5,6-Tetrachloro-m-xylene	77		87		30-150		B	
Decachlorobiphenyl	66		75		30-150		B	

METALS



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2319884

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID: L2319884-01
 Client ID: EP-51 (8')
 Sample Location: 47 DUPONT STREET, BROOKLYN, NY

Date Collected: 04/13/23 14:35
 Date Received: 04/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Aluminum, Total	8290		mg/kg	9.80	2.65	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.90	0.372	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Arsenic, Total	12.0		mg/kg	0.980	0.204	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Barium, Total	54.3		mg/kg	0.980	0.170	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.665		mg/kg	0.490	0.032	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.298	J	mg/kg	0.980	0.096	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Calcium, Total	1060		mg/kg	9.80	3.43	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Chromium, Total	14.4		mg/kg	0.980	0.094	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Cobalt, Total	8.65		mg/kg	1.96	0.163	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Copper, Total	16.4		mg/kg	0.980	0.253	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Iron, Total	23200		mg/kg	4.90	0.885	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Lead, Total	11.2		mg/kg	4.90	0.263	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Magnesium, Total	2510		mg/kg	9.80	1.51	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Manganese, Total	230		mg/kg	0.980	0.156	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Mercury, Total	ND		mg/kg	0.084	0.055	1	04/18/23 22:35	04/19/23 18:15	EPA 7471B	1,7471B	DMB
Nickel, Total	13.3		mg/kg	2.45	0.237	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Potassium, Total	369		mg/kg	245	14.1	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Selenium, Total	ND		mg/kg	1.96	0.253	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.490	0.277	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Sodium, Total	35.6	J	mg/kg	196	3.09	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.96	0.309	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Vanadium, Total	21.3		mg/kg	0.980	0.199	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW
Zinc, Total	43.8		mg/kg	4.90	0.287	2	04/18/23 21:53	04/19/23 19:25	EPA 3050B	1,6010D	AMW



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2319884

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID: L2319884-02
 Client ID: EP-52 (6')
 Sample Location: 47 DUPONT STREET, BROOKLYN, NY

Date Collected: 04/13/23 14:40
 Date Received: 04/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Aluminum, Total	4040		mg/kg	9.21	2.49	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.61	0.350	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Arsenic, Total	4.44		mg/kg	0.921	0.192	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Barium, Total	26.6		mg/kg	0.921	0.160	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.296	J	mg/kg	0.461	0.030	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.171	J	mg/kg	0.921	0.090	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Calcium, Total	338		mg/kg	9.21	3.22	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Chromium, Total	7.36		mg/kg	0.921	0.088	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Cobalt, Total	4.16		mg/kg	1.84	0.153	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Copper, Total	5.50		mg/kg	0.921	0.238	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Iron, Total	13000		mg/kg	4.61	0.832	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Lead, Total	3.07	J	mg/kg	4.61	0.247	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Magnesium, Total	1190		mg/kg	9.21	1.42	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Manganese, Total	240		mg/kg	0.921	0.146	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Mercury, Total	ND		mg/kg	0.080	0.052	1	04/18/23 22:35	04/19/23 18:18	EPA 7471B	1,7471B	DMB
Nickel, Total	8.91		mg/kg	2.30	0.223	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Potassium, Total	456		mg/kg	230	13.3	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Selenium, Total	ND		mg/kg	1.84	0.238	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.461	0.261	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Sodium, Total	22.6	J	mg/kg	184	2.90	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.84	0.290	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Vanadium, Total	12.5		mg/kg	0.921	0.187	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW
Zinc, Total	25.3		mg/kg	4.61	0.270	2	04/18/23 21:53	04/19/23 19:28	EPA 3050B	1,6010D	AMW



Project Name: NUHART EAST

Lab Number: L2319884

Project Number: 0201891

Report Date: 04/27/23

SAMPLE RESULTS

Lab ID: L2319884-03
 Client ID: EP-53 (6')
 Sample Location: 47 DUPONT STREET, BROOKLYN, NY

Date Collected: 04/13/23 14:45
 Date Received: 04/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Aluminum, Total	7870		mg/kg	9.30	2.51	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.65	0.353	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Arsenic, Total	20.8		mg/kg	0.930	0.193	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Barium, Total	23.1		mg/kg	0.930	0.162	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.761		mg/kg	0.465	0.031	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.266	J	mg/kg	0.930	0.091	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Calcium, Total	840		mg/kg	9.30	3.25	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Chromium, Total	14.6		mg/kg	0.930	0.089	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Cobalt, Total	3.91		mg/kg	1.86	0.154	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Copper, Total	15.5		mg/kg	0.930	0.240	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Iron, Total	18600		mg/kg	4.65	0.839	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Lead, Total	12.1		mg/kg	4.65	0.249	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Magnesium, Total	2330		mg/kg	9.30	1.43	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Manganese, Total	89.4		mg/kg	0.930	0.148	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Mercury, Total	ND		mg/kg	0.089	0.058	1	04/18/23 22:35	04/19/23 18:28	EPA 7471B	1,7471B	DMB
Nickel, Total	12.2		mg/kg	2.32	0.225	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Potassium, Total	359		mg/kg	232	13.4	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Selenium, Total	ND		mg/kg	1.86	0.240	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.465	0.263	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Sodium, Total	32.7	J	mg/kg	186	2.93	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.86	0.293	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Vanadium, Total	33.0		mg/kg	0.930	0.189	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW
Zinc, Total	36.8		mg/kg	4.65	0.272	2	04/18/23 21:53	04/19/23 19:31	EPA 3050B	1,6010D	AMW



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1766843-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Antimony, Total	ND	mg/kg	2.00	0.152	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Barium, Total	ND	mg/kg	0.400	0.070	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Calcium, Total	ND	mg/kg	4.00	1.40	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Chromium, Total	ND	mg/kg	0.400	0.038	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Copper, Total	ND	mg/kg	0.400	0.103	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Iron, Total	ND	mg/kg	2.00	0.361	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Lead, Total	ND	mg/kg	2.00	0.107	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Manganese, Total	ND	mg/kg	0.400	0.064	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Nickel, Total	ND	mg/kg	1.00	0.097	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Potassium, Total	ND	mg/kg	100	5.76	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Selenium, Total	ND	mg/kg	0.800	0.103	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Silver, Total	ND	mg/kg	0.200	0.113	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Sodium, Total	ND	mg/kg	80.0	1.26	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Thallium, Total	0.249	J	mg/kg	0.800	0.126	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW
Vanadium, Total	ND	mg/kg	0.400	0.081	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	
Zinc, Total	ND	mg/kg	2.00	0.117	1	04/18/23 21:53	04/19/23 17:59	1,6010D	AMW	

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1766845-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	04/18/23 22:35	04/19/23 16:52	1,7471B	DMB



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1766843-2 SRM Lot Number: D116-540								
Aluminum, Total	83	-	-	-	45-155	-	-	-
Antimony, Total	158	-	-	-	2-205	-	-	-
Arsenic, Total	109	-	-	-	82-119	-	-	-
Barium, Total	96	-	-	-	82-118	-	-	-
Beryllium, Total	103	-	-	-	82-118	-	-	-
Cadmium, Total	101	-	-	-	82-118	-	-	-
Calcium, Total	94	-	-	-	81-119	-	-	-
Chromium, Total	98	-	-	-	81-118	-	-	-
Cobalt, Total	96	-	-	-	83-117	-	-	-
Copper, Total	98	-	-	-	83-117	-	-	-
Iron, Total	100	-	-	-	58-142	-	-	-
Lead, Total	102	-	-	-	83-117	-	-	-
Magnesium, Total	90	-	-	-	75-125	-	-	-
Manganese, Total	99	-	-	-	82-118	-	-	-
Nickel, Total	100	-	-	-	82-118	-	-	-
Potassium, Total	88	-	-	-	68-131	-	-	-
Selenium, Total	111	-	-	-	78-122	-	-	-
Silver, Total	100	-	-	-	79-121	-	-	-
Sodium, Total	99	-	-	-	71-130	-	-	-
Thallium, Total	113	-	-	-	80-120	-	-	-
Vanadium, Total	99	-	-	-	78-122	-	-	-

Lab Control Sample Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1766843-2 SRM Lot Number: D116-540					
Zinc, Total	100	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1766845-2 SRM Lot Number: D116-540					
Mercury, Total	102	-	58-142	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1766843-3 QC Sample: L2319720-01 Client ID: MS Sample											
Aluminum, Total	6810	178	8690	1060	Q	-	-	-	75-125	-	20
Antimony, Total	ND	44.5	35.8	80		-	-	-	75-125	-	20
Arsenic, Total	5.28	10.7	16.5	105		-	-	-	75-125	-	20
Barium, Total	55.0	178	236	102		-	-	-	75-125	-	20
Beryllium, Total	0.395J	4.45	5.01	113		-	-	-	75-125	-	20
Cadmium, Total	0.224J	4.71	4.55	96		-	-	-	75-125	-	20
Calcium, Total	1940	890	3440	169	Q	-	-	-	75-125	-	20
Chromium, Total	10.2	17.8	28.6	103		-	-	-	75-125	-	20
Cobalt, Total	4.73	44.5	45.2	91		-	-	-	75-125	-	20
Copper, Total	35.3	22.2	56.2	94		-	-	-	75-125	-	20
Iron, Total	12200	89	13800	1800	Q	-	-	-	75-125	-	20
Lead, Total	114	47.1	166	110		-	-	-	75-125	-	20
Magnesium, Total	1570	890	2630	119		-	-	-	75-125	-	20
Manganese, Total	283	44.5	290	16	Q	-	-	-	75-125	-	20
Nickel, Total	10.2	44.5	49.7	89		-	-	-	75-125	-	20
Potassium, Total	624	890	1530	102		-	-	-	75-125	-	20
Selenium, Total	ND	10.7	11.2	105		-	-	-	75-125	-	20
Silver, Total	ND	4.45	3.69	83		-	-	-	75-125	-	20
Sodium, Total	71.3J	890	1100	124		-	-	-	75-125	-	20
Thallium, Total	ND	10.7	9.77	92		-	-	-	75-125	-	20
Vanadium, Total	15.2	44.5	61.3	104		-	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1766843-3 QC Sample: L2319720-01 Client ID: MS Sample									
Zinc, Total	54.9	44.5	95.8	92	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1766845-3 QC Sample: L2319720-01 Client ID: MS Sample									
Mercury, Total	0.565	1.5	2.02	97	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1766843-4 QC Sample: L2319720-01 Client ID: DUP Sample						
Aluminum, Total	6810	7120	mg/kg	4		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	5.28	4.99	mg/kg	6		20
Barium, Total	55.0	54.0	mg/kg	2		20
Beryllium, Total	0.395J	0.398J	mg/kg	NC		20
Cadmium, Total	0.224J	0.171J	mg/kg	NC		20
Calcium, Total	1940	1850	mg/kg	5		20
Chromium, Total	10.2	10.7	mg/kg	5		20
Cobalt, Total	4.73	4.60	mg/kg	3		20
Copper, Total	35.3	35.6	mg/kg	1		20
Iron, Total	12200	12600	mg/kg	3		20
Lead, Total	114	128	mg/kg	12		20
Magnesium, Total	1570	1650	mg/kg	5		20
Manganese, Total	283	238	mg/kg	17		20
Nickel, Total	10.2	9.65	mg/kg	6		20
Potassium, Total	624	676	mg/kg	8		20
Selenium, Total	ND	0.238J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	71.3J	78.1J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1766843-4 QC Sample: L2319720-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	15.2	15.8	mg/kg	4	20
Zinc, Total	54.9	59.3	mg/kg	8	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1766845-4 QC Sample: L2319720-01 Client ID: DUP Sample					
Mercury, Total	0.565	0.707	mg/kg	22	Q

Project Name: NUHART EAST
Project Number: 0201891

**Lab Serial Dilution
Analysis
Batch Quality Control**

Lab Number: L2319884
Report Date: 04/27/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1766843-6 QC Sample: L2319720-01 Client ID: DUP Sample						
Aluminum, Total	6810	7170	mg/kg	5		20
Barium, Total	55.0	58.0	mg/kg	5		20
Calcium, Total	1940	2060	mg/kg	6		20
Copper, Total	35.3	37.1	mg/kg	5		20
Iron, Total	12200	13500	mg/kg	11		20
Lead, Total	114	116	mg/kg	2		20
Magnesium, Total	1570	1710	mg/kg	9		20
Manganese, Total	283	304	mg/kg	7		20

INORGANICS & MISCELLANEOUS



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID: L2319884-01
Client ID: EP-51 (8')
Sample Location: 47 DUPONT STREET, BROOKLYN, NY

Date Collected: 04/13/23 14:35
Date Received: 04/13/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9	%		0.100	NA	1	-	04/14/23 18:17	121,2540G	MNF

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID: L2319884-02
Client ID: EP-52 (6')
Sample Location: 47 DUPONT STREET, BROOKLYN, NY

Date Collected: 04/13/23 14:40
Date Received: 04/13/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.5	%	0.100	NA	1	-	04/14/23 18:17	121,2540G	MNF	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2319884
Report Date: 04/27/23

SAMPLE RESULTS

Lab ID: L2319884-03
Client ID: EP-53 (6')
Sample Location: 47 DUPONT STREET, BROOKLYN, NY

Date Collected: 04/13/23 14:45
Date Received: 04/13/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.2	%	0.100	NA	1	-	04/14/23 18:17	121,2540G	MNF	

Project Name: NUHART EAST
Project Number: 0201891

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L2319884
Report Date: 04/27/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1767014-1 QC Sample: L2319688-02 Client ID: DUP Sample						
Solids, Total	79.6	78.2	%	2		20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2319884-01A	Vial MeOH preserved	B	NA	2.4	Y	Absent			NYTCL-8260HLW(14)
L2319884-01B	Vial water preserved	B	NA	2.4	Y	Absent	14-APR-23 07:42		NYTCL-8260HLW(14)
L2319884-01C	Vial water preserved	B	NA	2.4	Y	Absent	14-APR-23 07:42		NYTCL-8260HLW(14)
L2319884-01D	Plastic 120ml unpreserved	B	NA	2.4	Y	Absent			TS(7)
L2319884-01E	Metals Only-Glass 60mL/2oz unpreserved	B	NA	2.4	Y	Absent			BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2319884-01F	Glass 250ml/8oz unpreserved	B	NA	2.4	Y	Absent			NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2319884-01G	Plastic 2oz unpreserved for TS	A	NA	4.4	Y	Absent			NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2319884-01H	Plastic 8oz unpreserved	A	NA	4.4	Y	Absent			A2-537-ISOTOPE-FULL(90)
L2319884-02A	Vial MeOH preserved	B	NA	2.4	Y	Absent			NYTCL-8260HLW(14)
L2319884-02B	Vial water preserved	B	NA	2.4	Y	Absent	14-APR-23 07:42		NYTCL-8260HLW(14)
L2319884-02C	Vial water preserved	B	NA	2.4	Y	Absent	14-APR-23 07:42		NYTCL-8260HLW(14)
L2319884-02D	Plastic 120ml unpreserved	B	NA	2.4	Y	Absent			TS(7)
L2319884-02E	Metals Only-Glass 60mL/2oz unpreserved	B	NA	2.4	Y	Absent			BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2319884-02F	Glass 250ml/8oz unpreserved	B	NA	2.4	Y	Absent			NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2319884-02G	Plastic 2oz unpreserved for TS	A	NA	4.4	Y	Absent			NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2319884-02H	Plastic 8oz unpreserved	A	NA	4.4	Y	Absent			A2-537-ISOTOPE-FULL(90)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2319884-03A	Vial MeOH preserved	B	NA		2.4	Y	Absent		NYTCL-8260HLW(14)
L2319884-03B	Vial water preserved	B	NA		2.4	Y	Absent	14-APR-23 07:42	NYTCL-8260HLW(14)
L2319884-03C	Vial water preserved	B	NA		2.4	Y	Absent	14-APR-23 07:42	NYTCL-8260HLW(14)
L2319884-03D	Plastic 120ml unpreserved	B	NA		2.4	Y	Absent		TS(7)
L2319884-03E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2319884-03F	Glass 250ml/8oz unpreserved	B	NA		2.4	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2319884-03G	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2319884-03H	Plastic 8oz unpreserved	A	NA		4.4	Y	Absent		A2-537-ISOTOPE-FULL(90)

*Values in parentheses indicate holding time in days

Project Name: NUHART EAST
Project Number: 0201891

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluoroctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PPPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluoroctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PPPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PPPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluoroctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluoroctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluoroctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluoroctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluoroctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluoroctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluoroctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluoroctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid	11CI-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9CI-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Data Qualifiers

Identified Compounds (TICs).

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C**, **SM4500CN-CE**, **EPA 180.1**, **SM2130B**, **SM4500CI-D**, **SM2320B**, **SM2540C**, **SM4500H-B**, **SM4500NO2-B**

EPA 332: Perchlorate; **EPA 524.2**: THMs and VOCs; **EPA 504.1**: EDB, DBCP.

Microbiology: **SM9215B**; **SM9223-P/A**, **SM9223B-Colilert-QT**, **SM9222D**.

Non-Potable Water

SM4500H,B, **EPA 120.1**, **SM2510B**, **SM2540C**, **SM2320B**, **SM4500CL-E**, **SM4500F-BC**, **SM4500NH3-BH**: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1**, **SM4500NO3-F**, **EPA 353.2**: Nitrate-N, **SM4500P-E**, **SM4500P-B**, **E**, **SM4500SO4-E**, **SM5220D**, **EPA 410.4**, **SM5210B**, **SM5310C**, **SM4500CL-D**, **EPA 1664**, **EPA 420.1**, **SM4500-CN-CE**, **SM2540D**, **EPA 300**: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

Microbiology: **SM9223B-Colilert-QT**; **Enterolert-QT**, **SM9221E**, **EPA 1600**, **EPA 1603**, **SM9222D**.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8**: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg. **EPA 522**, **EPA 537.1**.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page / of 1	Date Rec'd in Lab <i>4/14/23</i>	ALPHA Job # <i>L2319884</i>							
Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <i>NuHart East</i> Project Location: <i>49 Devoe Street, Brooklyn NY</i> Project # <i>0201891</i>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other	Billing Information <input type="checkbox"/> Same as Client Info PO # <i>-</i>								
Client Information Client: <i>H&A of NY</i> Address: <i>237 W 35th Street</i> <i>Suite 16 NM NY</i> Phone: Fax: <i>jcommisso@haleyandrich.com</i> Email: <i>mcconnell@haleyandrich.com</i>		(Use Project name as Project #) <input type="checkbox"/> Project Manager: <i>Mari Commisso</i> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input checked="" type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:								
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Filtration Total Bottles Done Lab to do Preservation Lab to do (Please Specify below) Sample Specific Comments									
Other project specific requirements/comments:													
Please specify Metals or TAL.													
ALPHA Lab ID (Lab Use Only) <i>19884-01</i> <i>02</i> <i>03</i>	Sample ID <i>EP-51 (8')</i> <i>EP-52 (6')</i> <i>EP-53 (6')</i>	Collection <table border="1"> <tr> <td>Date</td> <td>Time</td> </tr> <tr> <td><i>4/13/23</i></td> <td><i>1435</i></td> </tr> <tr> <td><i>1</i></td> <td><i>1440</i></td> </tr> <tr> <td><i>1</i></td> <td><i>1445</i></td> </tr> </table>		Date	Time	<i>4/13/23</i>	<i>1435</i>	<i>1</i>	<i>1440</i>	<i>1</i>	<i>1445</i>	Sample Matrix <i>Soil</i>	Sampler's Initials <i>SS</i> <i>1</i> <i>1</i>
		Date	Time										
<i>4/13/23</i>	<i>1435</i>												
<i>1</i>	<i>1440</i>												
<i>1</i>	<i>1445</i>												
				VOCs <i>✓</i>	SVOCs <i>✓</i>	Pesticides <i>✓</i>	PCBs <i>✓</i>	TAL Methyl <i>✓</i>	1,4-Dioxane <i>✓</i>	PFAS (Method 337) <i>✓</i>			
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type <i>✓ A A A A A P</i>							
				Preservative <i>A/F A A A A A A</i>									
Relinquished By: <i>MPD NY ALPHA PO Box 828</i>		Date/Time <i>4/13/23 1605 4/13/23 1615 4/13/23</i>		Received By: <i>MPD NY ALPHA PO Box 828</i>		Date/Time <i>4/13/23 1610 4/13/23 1615 4/13/23 1915</i>							
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)													



ANALYTICAL REPORT

Lab Number:	L2320723
Client:	Haley & Aldrich 237 West 35th Street 16th Floor New York, NY 10123
ATTN:	Mari Cate Conlon
Phone:	(347) 271-1521
Project Name:	NUHART EAST
Project Number:	0201891
Report Date:	05/02/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2320723-01	SW-01 (5')	SOIL	49 DUPONT ST BROOKLYN, NY	04/18/23 13:00	04/18/23
L2320723-02	SW-02 (5')	SOIL	49 DUPONT ST BROOKLYN, NY	04/18/23 13:05	04/18/23
L2320723-03	SW-03 (5')	SOIL	49 DUPONT ST BROOKLYN, NY	04/18/23 13:10	04/18/23
L2320723-04	SW-04 (5')	SOIL	49 DUPONT ST BROOKLYN, NY	04/18/23 13:15	04/18/23
L2320723-05	SW-05 (5')	SOIL	49 DUPONT ST BROOKLYN, NY	04/18/23 13:40	04/18/23
L2320723-06	SW-06 (5')	SOIL	49 DUPONT ST BROOKLYN, NY	04/18/23 13:45	04/18/23
L2320723-07	SW-07 (5')	SOIL	49 DUPONT ST BROOKLYN, NY	04/18/23 13:50	04/18/23
L2320723-08	SW-08 (5')	SOIL	49 DUPONT ST BROOKLYN, NY	04/18/23 13:55	04/18/23
L2320723-09	ST-01 (6')	SOIL	49 DUPONT ST BROOKLYN, NY	04/18/23 13:20	04/18/23
L2320723-10	ST-02 (6')	SOIL	49 DUPONT ST BROOKLYN, NY	04/18/23 14:00	04/18/23

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Case Narrative (continued)

Report Submission

May 02, 2023: This final report includes the results of all requested analyses.

April 25, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

L2320723-08: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (11%) and 2,4,6-tribromophenol (8%); however, re-extraction achieved similar results: 2-fluorophenol (12%) and 2,4,6-tribromophenol (8%). The results of both extractions are reported.

Perfluorinated Alkyl Acids by Isotope Dilution

L2320723-01 through -10, WG1771537-1, WG1771537-2, WG1771537-5, and WG1771537-6: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2320723-01 through -10, WG1771537-1, WG1771537-2, WG1771537-5, and WG1771537-6: The MeOH fraction of the extraction is reported for the following compounds: Perfluoroctanesulfonamide (FOSA), N-Methyl Perfluoroctane Sulfonamide (NMeFOSA), N-Ethyl Perfluoroctane Sulfonamide (NEtFOSA), N-Methyl Perfluoroctanesulfonamido Ethanol (NMeFOSE), and N-Ethyl Perfluoroctanesulfonamido Ethanol (NEtFOSE) due to better extraction efficiency of the Surrogates (Extracted Internal Standards).

The WG1771537-2 LCS recovery, associated with L2320723-01 through -10, is below the acceptance criteria for perfluoroctadecanoic acid (pfoda) (5%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG1771537-5 MS recovery, performed on L2320723-01, is outside the acceptance criteria for perfluoroctadecanoic acid (pfoda) (9%).

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Case Narrative (continued)

Total Metals

L2320723-01 through -10: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 05/02/23

ORGANICS



VOLATILES



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-01	Date Collected:	04/18/23 13:00
Client ID:	SW-01 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/20/23 11:44
Analyst: MKS
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND	ug/kg	6.0	2.7	1	
1,1-Dichloroethane	ND	ug/kg	1.2	0.17	1	
Chloroform	ND	ug/kg	1.8	0.17	1	
Carbon tetrachloride	ND	ug/kg	1.2	0.27	1	
1,2-Dichloropropane	ND	ug/kg	1.2	0.15	1	
Dibromochloromethane	ND	ug/kg	1.2	0.17	1	
1,1,2-Trichloroethane	ND	ug/kg	1.2	0.32	1	
Tetrachloroethene	ND	ug/kg	0.60	0.23	1	
Chlorobenzene	ND	ug/kg	0.60	0.15	1	
Trichlorofluoromethane	ND	ug/kg	4.8	0.83	1	
1,2-Dichloroethane	ND	ug/kg	1.2	0.31	1	
1,1,1-Trichloroethane	ND	ug/kg	0.60	0.20	1	
Bromodichloromethane	ND	ug/kg	0.60	0.13	1	
trans-1,3-Dichloropropene	ND	ug/kg	1.2	0.32	1	
cis-1,3-Dichloropropene	ND	ug/kg	0.60	0.19	1	
1,3-Dichloropropene, Total	ND	ug/kg	0.60	0.19	1	
1,1-Dichloropropene	ND	ug/kg	0.60	0.19	1	
Bromoform	ND	ug/kg	4.8	0.29	1	
1,1,2,2-Tetrachloroethane	ND	ug/kg	0.60	0.20	1	
Benzene	ND	ug/kg	0.60	0.20	1	
Toluene	ND	ug/kg	1.2	0.65	1	
Ethylbenzene	ND	ug/kg	1.2	0.17	1	
Chloromethane	ND	ug/kg	4.8	1.1	1	
Bromomethane	ND	ug/kg	2.4	0.69	1	
Vinyl chloride	ND	ug/kg	1.2	0.40	1	
Chloroethane	ND	ug/kg	2.4	0.54	1	
1,1-Dichloroethene	ND	ug/kg	1.2	0.28	1	
trans-1,2-Dichloroethene	ND	ug/kg	1.8	0.16	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-01	Date Collected:	04/18/23 13:00
Client ID:	SW-01 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	2.5	ug/kg	0.60	0.16	1	
1,2-Dichlorobenzene	ND	ug/kg	2.4	0.17	1	
1,3-Dichlorobenzene	ND	ug/kg	2.4	0.18	1	
1,4-Dichlorobenzene	ND	ug/kg	2.4	0.20	1	
Methyl tert butyl ether	ND	ug/kg	2.4	0.24	1	
p/m-Xylene	ND	ug/kg	2.4	0.67	1	
o-Xylene	ND	ug/kg	1.2	0.35	1	
Xylenes, Total	ND	ug/kg	1.2	0.35	1	
cis-1,2-Dichloroethene	ND	ug/kg	1.2	0.21	1	
1,2-Dichloroethene, Total	ND	ug/kg	1.2	0.16	1	
Dibromomethane	ND	ug/kg	2.4	0.28	1	
Styrene	ND	ug/kg	1.2	0.23	1	
Dichlorodifluoromethane	ND	ug/kg	12	1.1	1	
Acetone	ND	ug/kg	12	5.7	1	
Carbon disulfide	ND	ug/kg	12	5.4	1	
2-Butanone	ND	ug/kg	12	2.6	1	
Vinyl acetate	ND	ug/kg	12	2.6	1	
4-Methyl-2-pentanone	ND	ug/kg	12	1.5	1	
1,2,3-Trichloropropane	ND	ug/kg	2.4	0.15	1	
2-Hexanone	ND	ug/kg	12	1.4	1	
Bromochloromethane	ND	ug/kg	2.4	0.24	1	
2,2-Dichloropropane	ND	ug/kg	2.4	0.24	1	
1,2-Dibromoethane	ND	ug/kg	1.2	0.33	1	
1,3-Dichloropropane	ND	ug/kg	2.4	0.20	1	
1,1,1,2-Tetrachloroethane	ND	ug/kg	0.60	0.16	1	
Bromobenzene	ND	ug/kg	2.4	0.17	1	
n-Butylbenzene	ND	ug/kg	1.2	0.20	1	
sec-Butylbenzene	ND	ug/kg	1.2	0.17	1	
tert-Butylbenzene	ND	ug/kg	2.4	0.14	1	
o-Chlorotoluene	ND	ug/kg	2.4	0.23	1	
p-Chlorotoluene	ND	ug/kg	2.4	0.13	1	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.6	1.2	1	
Hexachlorobutadiene	ND	ug/kg	4.8	0.20	1	
Isopropylbenzene	ND	ug/kg	1.2	0.13	1	
p-Isopropyltoluene	ND	ug/kg	1.2	0.13	1	
Naphthalene	ND	ug/kg	4.8	0.77	1	
Acrylonitrile	ND	ug/kg	4.8	1.4	1	



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-01
 Client ID: SW-01 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:00
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	95	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-02	Date Collected:	04/18/23 13:05
Client ID:	SW-02 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/20/23 12:10
Analyst: MKS
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND	ug/kg	5.8	2.6	1	
1,1-Dichloroethane	ND	ug/kg	1.2	0.17	1	
Chloroform	ND	ug/kg	1.7	0.16	1	
Carbon tetrachloride	ND	ug/kg	1.2	0.27	1	
1,2-Dichloropropane	ND	ug/kg	1.2	0.14	1	
Dibromochloromethane	ND	ug/kg	1.2	0.16	1	
1,1,2-Trichloroethane	ND	ug/kg	1.2	0.31	1	
Tetrachloroethene	ND	ug/kg	0.58	0.23	1	
Chlorobenzene	ND	ug/kg	0.58	0.15	1	
Trichlorofluoromethane	ND	ug/kg	4.6	0.81	1	
1,2-Dichloroethane	ND	ug/kg	1.2	0.30	1	
1,1,1-Trichloroethane	ND	ug/kg	0.58	0.19	1	
Bromodichloromethane	ND	ug/kg	0.58	0.13	1	
trans-1,3-Dichloropropene	ND	ug/kg	1.2	0.32	1	
cis-1,3-Dichloropropene	ND	ug/kg	0.58	0.18	1	
1,3-Dichloropropene, Total	ND	ug/kg	0.58	0.18	1	
1,1-Dichloropropene	ND	ug/kg	0.58	0.18	1	
Bromoform	ND	ug/kg	4.6	0.28	1	
1,1,2,2-Tetrachloroethane	ND	ug/kg	0.58	0.19	1	
Benzene	ND	ug/kg	0.58	0.19	1	
Toluene	ND	ug/kg	1.2	0.63	1	
Ethylbenzene	ND	ug/kg	1.2	0.16	1	
Chloromethane	ND	ug/kg	4.6	1.1	1	
Bromomethane	ND	ug/kg	2.3	0.67	1	
Vinyl chloride	ND	ug/kg	1.2	0.39	1	
Chloroethane	ND	ug/kg	2.3	0.52	1	
1,1-Dichloroethene	ND	ug/kg	1.2	0.28	1	
trans-1,2-Dichloroethene	ND	ug/kg	1.7	0.16	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-02	Date Collected:	04/18/23 13:05
Client ID:	SW-02 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	2.4		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.6	0.76	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-02
 Client ID: SW-02 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:05
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	93	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-03
Client ID: SW-03 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:10
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/20/23 12:36
Analyst: MKS
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND	ug/kg	5.1	2.3	1	
1,1-Dichloroethane	ND	ug/kg	1.0	0.15	1	
Chloroform	ND	ug/kg	1.5	0.14	1	
Carbon tetrachloride	ND	ug/kg	1.0	0.23	1	
1,2-Dichloropropane	ND	ug/kg	1.0	0.13	1	
Dibromochloromethane	ND	ug/kg	1.0	0.14	1	
1,1,2-Trichloroethane	ND	ug/kg	1.0	0.27	1	
Tetrachloroethene	ND	ug/kg	0.51	0.20	1	
Chlorobenzene	ND	ug/kg	0.51	0.13	1	
Trichlorofluoromethane	ND	ug/kg	4.0	0.70	1	
1,2-Dichloroethane	ND	ug/kg	1.0	0.26	1	
1,1,1-Trichloroethane	ND	ug/kg	0.51	0.17	1	
Bromodichloromethane	ND	ug/kg	0.51	0.11	1	
trans-1,3-Dichloropropene	ND	ug/kg	1.0	0.28	1	
cis-1,3-Dichloropropene	ND	ug/kg	0.51	0.16	1	
1,3-Dichloropropene, Total	ND	ug/kg	0.51	0.16	1	
1,1-Dichloropropene	ND	ug/kg	0.51	0.16	1	
Bromoform	ND	ug/kg	4.0	0.25	1	
1,1,2,2-Tetrachloroethane	ND	ug/kg	0.51	0.17	1	
Benzene	ND	ug/kg	0.51	0.17	1	
Toluene	ND	ug/kg	1.0	0.55	1	
Ethylbenzene	ND	ug/kg	1.0	0.14	1	
Chloromethane	ND	ug/kg	4.0	0.94	1	
Bromomethane	ND	ug/kg	2.0	0.59	1	
Vinyl chloride	ND	ug/kg	1.0	0.34	1	
Chloroethane	ND	ug/kg	2.0	0.46	1	
1,1-Dichloroethene	ND	ug/kg	1.0	0.24	1	
trans-1,2-Dichloroethene	ND	ug/kg	1.5	0.14	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-03	Date Collected:	04/18/23 13:10
Client ID:	SW-03 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.29	J	ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	15		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	14		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	3.6	J	ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.66	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-03
 Client ID: SW-03 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:10
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-04
Client ID: SW-04 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:15
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/20/23 13:02
Analyst: MKS
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.5	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.90	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.90	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.90	0.11	1
Dibromochloromethane	ND		ug/kg	0.90	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.90	0.24	1
Tetrachloroethene	ND		ug/kg	0.45	0.18	1
Chlorobenzene	ND		ug/kg	0.45	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.62	1
1,2-Dichloroethane	ND		ug/kg	0.90	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.45	0.15	1
Bromodichloromethane	ND		ug/kg	0.45	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.90	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.45	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.45	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.45	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.45	0.15	1
Benzene	ND		ug/kg	0.45	0.15	1
Toluene	0.54	J	ug/kg	0.90	0.49	1
Ethylbenzene	0.99		ug/kg	0.90	0.13	1
Chloromethane	ND		ug/kg	3.6	0.84	1
Bromomethane	ND		ug/kg	1.8	0.52	1
Vinyl chloride	ND		ug/kg	0.90	0.30	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.90	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-04	Date Collected:	04/18/23 13:15
Client ID:	SW-04 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.24	J	ug/kg	0.45	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	2.8		ug/kg	1.8	0.50	1
o-Xylene	1.1		ug/kg	0.90	0.26	1
Xylenes, Total	3.9		ug/kg	0.90	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.90	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.90	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.21	1
Styrene	ND		ug/kg	0.90	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.0	0.82	1
Acetone	22		ug/kg	9.0	4.3	1
Carbon disulfide	ND		ug/kg	9.0	4.1	1
2-Butanone	33		ug/kg	9.0	2.0	1
Vinyl acetate	ND		ug/kg	9.0	1.9	1
4-Methyl-2-pentanone	6.6	J	ug/kg	9.0	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.11	1
2-Hexanone	ND		ug/kg	9.0	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.90	0.25	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.45	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.90	0.15	1
sec-Butylbenzene	ND		ug/kg	0.90	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	3.6	0.15	1
Isopropylbenzene	ND		ug/kg	0.90	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.90	0.10	1
Naphthalene	ND		ug/kg	3.6	0.58	1
Acrylonitrile	ND		ug/kg	3.6	1.0	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-04
 Client ID: SW-04 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:15
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.90	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	72	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.34	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.5	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-05	Date Collected:	04/18/23 13:40
Client ID:	SW-05 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil
Analytical Method:	1,8260D
Analytical Date:	04/20/23 13:28
Analyst:	MKS
Percent Solids:	87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND	ug/kg	4.9	2.2	1	
1,1-Dichloroethane	ND	ug/kg	0.98	0.14	1	
Chloroform	ND	ug/kg	1.5	0.14	1	
Carbon tetrachloride	ND	ug/kg	0.98	0.22	1	
1,2-Dichloropropane	ND	ug/kg	0.98	0.12	1	
Dibromochloromethane	ND	ug/kg	0.98	0.14	1	
1,1,2-Trichloroethane	ND	ug/kg	0.98	0.26	1	
Tetrachloroethene	ND	ug/kg	0.49	0.19	1	
Chlorobenzene	ND	ug/kg	0.49	0.12	1	
Trichlorofluoromethane	ND	ug/kg	3.9	0.68	1	
1,2-Dichloroethane	ND	ug/kg	0.98	0.25	1	
1,1,1-Trichloroethane	ND	ug/kg	0.49	0.16	1	
Bromodichloromethane	ND	ug/kg	0.49	0.11	1	
trans-1,3-Dichloropropene	ND	ug/kg	0.98	0.27	1	
cis-1,3-Dichloropropene	ND	ug/kg	0.49	0.15	1	
1,3-Dichloropropene, Total	ND	ug/kg	0.49	0.15	1	
1,1-Dichloropropene	ND	ug/kg	0.49	0.16	1	
Bromoform	ND	ug/kg	3.9	0.24	1	
1,1,2,2-Tetrachloroethane	ND	ug/kg	0.49	0.16	1	
Benzene	ND	ug/kg	0.49	0.16	1	
Toluene	ND	ug/kg	0.98	0.53	1	
Ethylbenzene	ND	ug/kg	0.98	0.14	1	
Chloromethane	ND	ug/kg	3.9	0.91	1	
Bromomethane	ND	ug/kg	2.0	0.57	1	
Vinyl chloride	ND	ug/kg	0.98	0.33	1	
Chloroethane	ND	ug/kg	2.0	0.44	1	
1,1-Dichloroethene	ND	ug/kg	0.98	0.23	1	
trans-1,2-Dichloroethene	ND	ug/kg	1.5	0.13	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-05	Date Collected:	04/18/23 13:40
Client ID:	SW-05 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.87		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.98	0.28	1
Xylenes, Total	ND		ug/kg	0.98	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.13	1
Dibromomethane	ND		ug/kg	2.0	0.23	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.90	1
Acetone	7.5	J	ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.4	1
2-Butanone	19		ug/kg	9.8	2.2	1
Vinyl acetate	ND		ug/kg	9.8	2.1	1
4-Methyl-2-pentanone	3.0	J	ug/kg	9.8	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.98	0.16	1
sec-Butylbenzene	ND		ug/kg	0.98	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.98	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.11	1
Naphthalene	ND		ug/kg	3.9	0.64	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-05
 Client ID: SW-05 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:40
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.98	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.17	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-06
Client ID: SW-06 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:45
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/20/23 13:54
Analyst: MKS
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	0.26	J	ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.0	0.58	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-06	Date Collected:	04/18/23 13:45
Client ID:	SW-06 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.18	J	ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.31	1
Xylenes, Total	ND		ug/kg	1.0	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.21	1
Dichlorodifluoromethane	ND		ug/kg	10	0.97	1
Acetone	57		ug/kg	10	5.1	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	63		ug/kg	10	2.4	1
Vinyl acetate	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	17		ug/kg	10	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.12	1
Naphthalene	2.2	J	ug/kg	4.2	0.69	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-06
 Client ID: SW-06 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:45
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	85	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	91		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-07	Date Collected:	04/18/23 13:50
Client ID:	SW-07 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil
Analytical Method:	1,8260D
Analytical Date:	04/20/23 14:20
Analyst:	MKS
Percent Solids:	83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	17	7.8	1
1,1-Dichloroethane	ND		ug/kg	3.4	0.49	1
Chloroform	ND		ug/kg	5.1	0.48	1
Carbon tetrachloride	ND		ug/kg	3.4	0.78	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.42	1
Dibromochloromethane	ND		ug/kg	3.4	0.48	1
1,1,2-Trichloroethane	ND		ug/kg	3.4	0.91	1
Tetrachloroethene	ND		ug/kg	1.7	0.67	1
Chlorobenzene	ND		ug/kg	1.7	0.43	1
Trichlorofluoromethane	ND		ug/kg	14	2.4	1
1,2-Dichloroethane	ND		ug/kg	3.4	0.88	1
1,1,1-Trichloroethane	ND		ug/kg	1.7	0.57	1
Bromodichloromethane	ND		ug/kg	1.7	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	3.4	0.93	1
cis-1,3-Dichloropropene	ND		ug/kg	1.7	0.54	1
1,3-Dichloropropene, Total	ND		ug/kg	1.7	0.54	1
1,1-Dichloropropene	ND		ug/kg	1.7	0.54	1
Bromoform	ND		ug/kg	14	0.84	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.7	0.56	1
Benzene	ND		ug/kg	1.7	0.56	1
Toluene	4.4		ug/kg	3.4	1.8	1
Ethylbenzene	0.64	J	ug/kg	3.4	0.48	1
Chloromethane	ND		ug/kg	14	3.2	1
Bromomethane	ND		ug/kg	6.8	2.0	1
Vinyl chloride	ND		ug/kg	3.4	1.1	1
Chloroethane	ND		ug/kg	6.8	1.5	1
1,1-Dichloroethene	ND		ug/kg	3.4	0.81	1
trans-1,2-Dichloroethene	ND		ug/kg	5.1	0.47	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-07	Date Collected:	04/18/23 13:50
Client ID:	SW-07 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	3.0		ug/kg	1.7	0.47	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	0.49	1
1,3-Dichlorobenzene	ND		ug/kg	6.8	0.50	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	0.58	1
Methyl tert butyl ether	ND		ug/kg	6.8	0.68	1
p/m-Xylene	2.8	J	ug/kg	6.8	1.9	1
o-Xylene	1.4	J	ug/kg	3.4	0.99	1
Xylenes, Total	4.2	J	ug/kg	3.4	0.99	1
cis-1,2-Dichloroethene	ND		ug/kg	3.4	0.60	1
1,2-Dichloroethene, Total	ND		ug/kg	3.4	0.47	1
Dibromomethane	ND		ug/kg	6.8	0.81	1
Styrene	ND		ug/kg	3.4	0.67	1
Dichlorodifluoromethane	ND		ug/kg	34	3.1	1
Acetone	80		ug/kg	34	16.	1
Carbon disulfide	ND		ug/kg	34	15.	1
2-Butanone	87		ug/kg	34	7.6	1
Vinyl acetate	ND		ug/kg	34	7.3	1
4-Methyl-2-pentanone	260		ug/kg	34	4.4	1
1,2,3-Trichloropropane	ND		ug/kg	6.8	0.43	1
2-Hexanone	ND		ug/kg	34	4.0	1
Bromochloromethane	ND		ug/kg	6.8	0.70	1
2,2-Dichloropropane	ND		ug/kg	6.8	0.69	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.95	1
1,3-Dichloropropane	ND		ug/kg	6.8	0.57	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.7	0.45	1
Bromobenzene	ND		ug/kg	6.8	0.49	1
n-Butylbenzene	0.70	J	ug/kg	3.4	0.57	1
sec-Butylbenzene	0.62	J	ug/kg	3.4	0.50	1
tert-Butylbenzene	ND		ug/kg	6.8	0.40	1
o-Chlorotoluene	ND		ug/kg	6.8	0.65	1
p-Chlorotoluene	ND		ug/kg	6.8	0.37	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	10	3.4	1
Hexachlorobutadiene	ND		ug/kg	14	0.58	1
Isopropylbenzene	ND		ug/kg	3.4	0.37	1
p-Isopropyltoluene	0.72	J	ug/kg	3.4	0.37	1
Naphthalene	9.6	J	ug/kg	14	2.2	1
Acrylonitrile	ND		ug/kg	14	3.9	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-07
 Client ID: SW-07 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:50
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	3.4	0.58	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	1.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	0.93	1
1,3,5-Trimethylbenzene	1.6	J	ug/kg	6.8	0.66	1
1,2,4-Trimethylbenzene	3.8	J	ug/kg	6.8	1.1	1
1,4-Dioxane	ND		ug/kg	270	120	1
p-Diethylbenzene	ND		ug/kg	6.8	0.60	1
p-Ethyltoluene	ND		ug/kg	6.8	1.3	1
1,2,4,5-Tetramethylbenzene	1.2	J	ug/kg	6.8	0.65	1
Ethyl ether	ND		ug/kg	6.8	1.2	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	17	4.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-08
Client ID: SW-08 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:55
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/20/23 14:46
Analyst: MKS
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	0.28	J	ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-08	Date Collected:	04/18/23 13:55
Client ID:	SW-08 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.31	J	ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	110		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	84		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	24		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	0.92	J	ug/kg	4.9	0.79	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-08
 Client ID: SW-08 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:55
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	97	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	94		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-09
Client ID: ST-01 (6')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:20
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/20/23 15:12
Analyst: MKS
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND	ug/kg	5.3	2.4	1	
1,1-Dichloroethane	ND	ug/kg	1.1	0.15	1	
Chloroform	ND	ug/kg	1.6	0.15	1	
Carbon tetrachloride	ND	ug/kg	1.1	0.24	1	
1,2-Dichloropropane	ND	ug/kg	1.1	0.13	1	
Dibromochloromethane	ND	ug/kg	1.1	0.15	1	
1,1,2-Trichloroethane	ND	ug/kg	1.1	0.28	1	
Tetrachloroethene	ND	ug/kg	0.53	0.21	1	
Chlorobenzene	ND	ug/kg	0.53	0.14	1	
Trichlorofluoromethane	ND	ug/kg	4.3	0.74	1	
1,2-Dichloroethane	ND	ug/kg	1.1	0.27	1	
1,1,1-Trichloroethane	ND	ug/kg	0.53	0.18	1	
Bromodichloromethane	ND	ug/kg	0.53	0.12	1	
trans-1,3-Dichloropropene	ND	ug/kg	1.1	0.29	1	
cis-1,3-Dichloropropene	ND	ug/kg	0.53	0.17	1	
1,3-Dichloropropene, Total	ND	ug/kg	0.53	0.17	1	
1,1-Dichloropropene	ND	ug/kg	0.53	0.17	1	
Bromoform	ND	ug/kg	4.3	0.26	1	
1,1,2,2-Tetrachloroethane	ND	ug/kg	0.53	0.18	1	
Benzene	ND	ug/kg	0.53	0.18	1	
Toluene	ND	ug/kg	1.1	0.58	1	
Ethylbenzene	ND	ug/kg	1.1	0.15	1	
Chloromethane	ND	ug/kg	4.3	0.99	1	
Bromomethane	ND	ug/kg	2.1	0.62	1	
Vinyl chloride	ND	ug/kg	1.1	0.36	1	
Chloroethane	ND	ug/kg	2.1	0.48	1	
1,1-Dichloroethene	ND	ug/kg	1.1	0.25	1	
trans-1,2-Dichloroethene	ND	ug/kg	1.6	0.15	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-09	Date Collected:	04/18/23 13:20
Client ID:	ST-01 (6')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.17	J	ug/kg	0.53	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	31		ug/kg	11	5.1	1
Carbon disulfide	ND		ug/kg	11	4.8	1
2-Butanone	8.0	J	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	5.3	J	ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
2-Hexanone	ND		ug/kg	11	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	1.4	J	ug/kg	4.3	0.69	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-09
 Client ID: ST-01 (6')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:20
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	85	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-10	Date Collected:	04/18/23 14:00
Client ID:	ST-02 (6')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil
Analytical Method:	1,8260D
Analytical Date:	04/20/23 15:38
Analyst:	MKS
Percent Solids:	85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND	ug/kg	4.4	2.0	1	
1,1-Dichloroethane	ND	ug/kg	0.89	0.13	1	
Chloroform	ND	ug/kg	1.3	0.12	1	
Carbon tetrachloride	ND	ug/kg	0.89	0.20	1	
1,2-Dichloropropane	ND	ug/kg	0.89	0.11	1	
Dibromochloromethane	ND	ug/kg	0.89	0.12	1	
1,1,2-Trichloroethane	ND	ug/kg	0.89	0.24	1	
Tetrachloroethene	ND	ug/kg	0.44	0.17	1	
Chlorobenzene	ND	ug/kg	0.44	0.11	1	
Trichlorofluoromethane	ND	ug/kg	3.6	0.62	1	
1,2-Dichloroethane	ND	ug/kg	0.89	0.23	1	
1,1,1-Trichloroethane	ND	ug/kg	0.44	0.15	1	
Bromodichloromethane	ND	ug/kg	0.44	0.10	1	
trans-1,3-Dichloropropene	ND	ug/kg	0.89	0.24	1	
cis-1,3-Dichloropropene	ND	ug/kg	0.44	0.14	1	
1,3-Dichloropropene, Total	ND	ug/kg	0.44	0.14	1	
1,1-Dichloropropene	ND	ug/kg	0.44	0.14	1	
Bromoform	ND	ug/kg	3.6	0.22	1	
1,1,2,2-Tetrachloroethane	ND	ug/kg	0.44	0.15	1	
Benzene	ND	ug/kg	0.44	0.15	1	
Toluene	ND	ug/kg	0.89	0.48	1	
Ethylbenzene	ND	ug/kg	0.89	0.12	1	
Chloromethane	ND	ug/kg	3.6	0.83	1	
Bromomethane	ND	ug/kg	1.8	0.52	1	
Vinyl chloride	ND	ug/kg	0.89	0.30	1	
Chloroethane	ND	ug/kg	1.8	0.40	1	
1,1-Dichloroethene	ND	ug/kg	0.89	0.21	1	
trans-1,2-Dichloroethene	ND	ug/kg	1.3	0.12	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-10	Date Collected:	04/18/23 14:00
Client ID:	ST-02 (6')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.30	J	ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.50	1
o-Xylene	ND		ug/kg	0.89	0.26	1
Xylenes, Total	ND		ug/kg	0.89	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.89	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.89	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.21	1
Styrene	ND		ug/kg	0.89	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.9	0.81	1
Acetone	28		ug/kg	8.9	4.3	1
Carbon disulfide	ND		ug/kg	8.9	4.0	1
2-Butanone	87		ug/kg	8.9	2.0	1
Vinyl acetate	ND		ug/kg	8.9	1.9	1
4-Methyl-2-pentanone	20		ug/kg	8.9	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.11	1
2-Hexanone	ND		ug/kg	8.9	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.89	0.25	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.89	0.15	1
sec-Butylbenzene	ND		ug/kg	0.89	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.10	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.89	1
Hexachlorobutadiene	ND		ug/kg	3.6	0.15	1
Isopropylbenzene	ND		ug/kg	0.89	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.89	0.10	1
Naphthalene	2.4	J	ug/kg	3.6	0.58	1
Acrylonitrile	ND		ug/kg	3.6	1.0	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-10
 Client ID: ST-02 (6')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 14:00
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.89	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	71	31.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.34	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.4	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/20/23 10:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):		01-10	Batch:	WG1769671-5	
Methylene chloride	ND	ug/kg	5.0	2.3	
1,1-Dichloroethane	ND	ug/kg	1.0	0.14	
Chloroform	ND	ug/kg	1.5	0.14	
Carbon tetrachloride	ND	ug/kg	1.0	0.23	
1,2-Dichloropropane	ND	ug/kg	1.0	0.12	
Dibromochloromethane	ND	ug/kg	1.0	0.14	
1,1,2-Trichloroethane	ND	ug/kg	1.0	0.27	
Tetrachloroethene	ND	ug/kg	0.50	0.20	
Chlorobenzene	ND	ug/kg	0.50	0.13	
Trichlorofluoromethane	ND	ug/kg	4.0	0.70	
1,2-Dichloroethane	ND	ug/kg	1.0	0.26	
1,1,1-Trichloroethane	ND	ug/kg	0.50	0.17	
Bromodichloromethane	ND	ug/kg	0.50	0.11	
trans-1,3-Dichloropropene	ND	ug/kg	1.0	0.27	
cis-1,3-Dichloropropene	ND	ug/kg	0.50	0.16	
1,3-Dichloropropene, Total	ND	ug/kg	0.50	0.16	
1,1-Dichloropropene	ND	ug/kg	0.50	0.16	
Bromoform	ND	ug/kg	4.0	0.25	
1,1,2,2-Tetrachloroethane	ND	ug/kg	0.50	0.17	
Benzene	ND	ug/kg	0.50	0.17	
Toluene	ND	ug/kg	1.0	0.54	
Ethylbenzene	ND	ug/kg	1.0	0.14	
Chloromethane	ND	ug/kg	4.0	0.93	
Bromomethane	ND	ug/kg	2.0	0.58	
Vinyl chloride	ND	ug/kg	1.0	0.34	
Chloroethane	ND	ug/kg	2.0	0.45	
1,1-Dichloroethene	ND	ug/kg	1.0	0.24	
trans-1,2-Dichloroethene	ND	ug/kg	1.5	0.14	
Trichloroethene	ND	ug/kg	0.50	0.14	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/20/23 10:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):	01-10		Batch:	WG1769671-5	
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	0.25	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/20/23 10:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):	01-10			Batch: WG1769671-5	
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1769671-3 WG1769671-4								
Methylene chloride	92		91		70-130	1		30
1,1-Dichloroethane	98		98		70-130	0		30
Chloroform	98		98		70-130	0		30
Carbon tetrachloride	99		98		70-130	1		30
1,2-Dichloropropane	98		96		70-130	2		30
Dibromochloromethane	97		97		70-130	0		30
1,1,2-Trichloroethane	95		94		70-130	1		30
Tetrachloroethene	99		100		70-130	1		30
Chlorobenzene	95		96		70-130	1		30
Trichlorofluoromethane	94		96		70-139	2		30
1,2-Dichloroethane	98		95		70-130	3		30
1,1,1-Trichloroethane	100		100		70-130	0		30
Bromodichloromethane	99		98		70-130	1		30
trans-1,3-Dichloropropene	98		96		70-130	2		30
cis-1,3-Dichloropropene	100		98		70-130	2		30
1,1-Dichloropropene	100		99		70-130	1		30
Bromoform	90		92		70-130	2		30
1,1,2,2-Tetrachloroethane	86		87		70-130	1		30
Benzene	98		97		70-130	1		30
Toluene	91		91		70-130	0		30
Ethylbenzene	94		95		70-130	1		30
Chloromethane	95		95		52-130	0		30
Bromomethane	111		111		57-147	32	Q	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1769671-3 WG1769671-4								
Vinyl chloride	96		96		67-130	0		30
Chloroethane	101		99		50-151	2		30
1,1-Dichloroethene	99		98		65-135	1		30
trans-1,2-Dichloroethene	99		99		70-130	0		30
Trichloroethene	101		100		70-130	1		30
1,2-Dichlorobenzene	90		90		70-130	0		30
1,3-Dichlorobenzene	89		91		70-130	2		30
1,4-Dichlorobenzene	89		90		70-130	1		30
Methyl tert butyl ether	98		96		66-130	2		30
p/m-Xylene	95		95		70-130	0		30
o-Xylene	95		96		70-130	1		30
cis-1,2-Dichloroethene	99		98		70-130	1		30
Dibromomethane	97		95		70-130	2		30
Styrene	95		94		70-130	1		30
Dichlorodifluoromethane	89		89		30-146	0		30
Acetone	106		101		54-140	5		30
Carbon disulfide	100		100		59-130	0		30
2-Butanone	105		97		70-130	8		30
Vinyl acetate	95		93		70-130	2		30
4-Methyl-2-pentanone	93		89		70-130	4		30
1,2,3-Trichloropropane	87		86		68-130	1		30
2-Hexanone	90		84		70-130	7		30
Bromochloromethane	99		97		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1769671-3 WG1769671-4								
2,2-Dichloropropane	100		100		70-130	0		30
1,2-Dibromoethane	96		95		70-130	1		30
1,3-Dichloropropane	95		94		69-130	1		30
1,1,1,2-Tetrachloroethane	96		96		70-130	0		30
Bromobenzene	88		90		70-130	2		30
n-Butylbenzene	90		92		70-130	2		30
sec-Butylbenzene	88		90		70-130	2		30
tert-Butylbenzene	88		90		70-130	2		30
o-Chlorotoluene	87		92		70-130	6		30
p-Chlorotoluene	88		90		70-130	2		30
1,2-Dibromo-3-chloropropane	88		87		68-130	1		30
Hexachlorobutadiene	86		89		67-130	3		30
Isopropylbenzene	87		91		70-130	4		30
p-Isopropyltoluene	89		92		70-130	3		30
Naphthalene	87		88		70-130	1		30
Acrylonitrile	98		94		70-130	4		30
n-Propylbenzene	88		91		70-130	3		30
1,2,3-Trichlorobenzene	88		90		70-130	2		30
1,2,4-Trichlorobenzene	91		93		70-130	2		30
1,3,5-Trimethylbenzene	88		91		70-130	3		30
1,2,4-Trimethylbenzene	88		91		70-130	3		30
1,4-Dioxane	95		89		65-136	7		30
p-Diethylbenzene	91		92		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1769671-3 WG1769671-4								
p-Ethyltoluene	89		92		70-130	3		30
1,2,4,5-Tetramethylbenzene	89		92		70-130	3		30
Ethyl ether	99		98		67-130	1		30
trans-1,4-Dichloro-2-butene	91		91		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		95		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	95		97		70-130
Dibromofluoromethane	98		100		70-130

SEMIVOLATILES



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-01
Client ID: SW-01 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:00
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/22/23 03:02
Analyst: EK
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 02:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	49	J	ug/kg	180	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	26.	1
Hexachlorobenzene	ND		ug/kg	140	26.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	31.	1
2-Chloronaphthalene	ND		ug/kg	230	23.	1
1,2-Dichlorobenzene	ND		ug/kg	230	41.	1
1,3-Dichlorobenzene	ND		ug/kg	230	39.	1
1,4-Dichlorobenzene	ND		ug/kg	230	40.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	61.	1
2,4-Dinitrotoluene	ND		ug/kg	230	46.	1
2,6-Dinitrotoluene	ND		ug/kg	230	39.	1
Fluoranthene	530		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	35.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	39.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	23.	1
Hexachlorobutadiene	ND		ug/kg	230	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	650	210	1
Hexachloroethane	ND		ug/kg	180	37.	1
Isophorone	ND		ug/kg	200	30.	1
Naphthalene	ND		ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	200	34.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	35.	1
Bis(2-ethylhexyl)phthalate	290		ug/kg	230	79.	1
Butyl benzyl phthalate	ND		ug/kg	230	58.	1
Di-n-butylphthalate	ND		ug/kg	230	43.	1
Di-n-octylphthalate	ND		ug/kg	230	78.	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-01	Date Collected:	04/18/23 13:00
Client ID:	SW-01 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	230	21.	1
Dimethyl phthalate	ND		ug/kg	230	48.	1
Benzo(a)anthracene	230		ug/kg	140	26.	1
Benzo(a)pyrene	250		ug/kg	180	56.	1
Benzo(b)fluoranthene	300		ug/kg	140	38.	1
Benzo(k)fluoranthene	76	J	ug/kg	140	36.	1
Chrysene	240		ug/kg	140	24.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	99	J	ug/kg	140	44.	1
Benzo(ghi)perylene	130	J	ug/kg	180	27.	1
Fluorene	36	J	ug/kg	230	22.	1
Phenanthrene	400		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	36	J	ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	150	J	ug/kg	180	32.	1
Pyrene	470		ug/kg	140	23.	1
Biphenyl	ND		ug/kg	520	30.	1
4-Chloroaniline	ND		ug/kg	230	42.	1
2-Nitroaniline	ND		ug/kg	230	44.	1
3-Nitroaniline	ND		ug/kg	230	43.	1
4-Nitroaniline	ND		ug/kg	230	95.	1
Dibenzofuran	ND		ug/kg	230	22.	1
2-Methylnaphthalene	ND		ug/kg	270	28.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	43.	1
p-Chloro-m-cresol	ND		ug/kg	230	34.	1
2-Chlorophenol	ND		ug/kg	230	27.	1
2,4-Dichlorophenol	ND		ug/kg	200	37.	1
2,4-Dimethylphenol	ND		ug/kg	230	75.	1
2-Nitrophenol	ND		ug/kg	490	86.	1
4-Nitrophenol	ND		ug/kg	320	93.	1
2,4-Dinitrophenol	ND		ug/kg	1100	110	1
4,6-Dinitro-o-cresol	ND		ug/kg	590	110	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	110	J	ug/kg	230	34.	1
2-Methylphenol	ND		ug/kg	230	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	330	36.	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-01	Date Collected:	04/18/23 13:00
Client ID:	SW-01 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	230	44.	1
Benzoic Acid	ND		ug/kg	740	230	1
Benzyl Alcohol	ND		ug/kg	230	70.	1
Carbazole	38	J	ug/kg	230	22.	1
1,4-Dioxane	ND		ug/kg	34	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	43		10-136
4-Terphenyl-d14	66		18-120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-01
Client ID: SW-01 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:00
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/27/23 17:58
Analyst: RS
Percent Solids: 73%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND	ng/g	0.638	0.029	1	
Perfluoropentanoic Acid (PFPeA)	ND	ng/g	0.638	0.059	1	
Perfluorobutanesulfonic Acid (PFBS)	ND	ng/g	0.319	0.050	1	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ng/g	1.28	0.082	1	
Perfluorohexanoic Acid (PFHxA)	ND	ng/g	0.638	0.067	1	
Perfluoropentanesulfonic Acid (PFPeS)	ND	ng/g	1.28	0.106	1	
Perfluoroheptanoic Acid (PFHpA)	ND	ng/g	0.319	0.058	1	
Perfluorohexanesulfonic Acid (PFHxS)	ND	ng/g	0.319	0.077	1	
Perfluoroctanoic Acid (PFOA)	ND	ng/g	0.319	0.054	1	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ng/g	0.638	0.229	1	
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ng/g	0.638	0.174	1	
Perfluorononanoic Acid (PFNA)	ND	ng/g	0.319	0.096	1	
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/g	0.319	0.166	1	
Perfluorodecanoic Acid (PFDA)	ND	ng/g	0.319	0.086	1	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ng/g	0.638	0.366	1	
Perfluorononanesulfonic Acid (PFNS)	ND	ng/g	1.28	0.382	1	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ng/g	0.638	0.257	1	
Perfluoroundecanoic Acid (PFUnA)	ND	ng/g	0.638	0.060	1	
Perfluorodecanesulfonic Acid (PFDS)	ND	ng/g	0.638	0.195	1	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ng/g	0.638	0.108	1	
Perfluorododecanoic Acid (PFDoA)	ND	ng/g	0.638	0.089	1	
Perfluorotridecanoic Acid (PFTrDA)	ND	ng/g	0.638	0.261	1	
Perfluorotetradecanoic Acid (PFTA)	ND	ng/g	0.638	0.069	1	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ng/g	12.8	4.86	1	
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ng/g	1.28	0.053	1	
Perfluorohexadecanoic Acid (PFHxDA)	ND	ng/g	3.19	0.153	1	
Perfluoroctadecanoic Acid (PFODA)	ND	ng/g	3.19	0.218	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-01	Date Collected:	04/18/23 13:00
Client ID:	SW-01 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.28	0.110	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.28	0.351	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.28	0.048	1
11-Chloroeicosafauro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	1.28	0.050	1
Perfluoropropane Sulfonic Acid (PFPsS)	ND		ng/g	1.28	0.256	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.28	0.191	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.28	0.214	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.28	0.285	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.28	0.193	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	45	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	53	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	90		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	67		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	73		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	92		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	74	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	107		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	74		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	80		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	65	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	107		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	47		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	64		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	64		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	68		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	49		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	49		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	101		50-150



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-01
 Client ID: SW-01 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:00
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 12:58
 Analyst: JW
 Percent Solids: 73%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.638	0.125	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.28	0.484	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.28	0.520	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.55	0.664	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.55	0.932	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		63		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		69		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		75		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		62		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		66		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-02
Client ID: SW-02 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:05
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/22/23 02:15
Analyst: EK
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 02:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	74	J	ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	700		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-02	Date Collected:	04/18/23 13:05
Client ID:	SW-02 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	340		ug/kg	130	24.	1
Benzo(a)pyrene	340		ug/kg	170	51.	1
Benzo(b)fluoranthene	400		ug/kg	130	35.	1
Benzo(k)fluoranthene	130		ug/kg	130	34.	1
Chrysene	300		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	160		ug/kg	130	41.	1
Benzo(ghi)perylene	170		ug/kg	170	25.	1
Fluorene	62	J	ug/kg	210	20.	1
Phenanthrene	530		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	44	J	ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	190		ug/kg	170	29.	1
Pyrene	580		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	27.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	33	J	ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	450	79.	1
4-Nitrophenol	ND		ug/kg	290	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-02
 Client ID: SW-02 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:05
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	49	J	ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	32	9.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	49		10-136
4-Terphenyl-d14	68		18-120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-02
Client ID: SW-02 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:05
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/27/23 18:31
Analyst: RS
Percent Solids: 78%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND	ng/g	0.603	0.027	1	
Perfluoropentanoic Acid (PFPeA)	ND	ng/g	0.603	0.055	1	
Perfluorobutanesulfonic Acid (PFBS)	ND	ng/g	0.301	0.047	1	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ng/g	1.20	0.078	1	
Perfluorohexanoic Acid (PFHxA)	ND	ng/g	0.603	0.063	1	
Perfluoropentanesulfonic Acid (PFPeS)	ND	ng/g	1.20	0.101	1	
Perfluoroheptanoic Acid (PFHpA)	ND	ng/g	0.301	0.054	1	
Perfluorohexanesulfonic Acid (PFHxS)	ND	ng/g	0.301	0.073	1	
Perfluoroctanoic Acid (PFOA)	ND	ng/g	0.301	0.051	1	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ng/g	0.603	0.216	1	
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ng/g	0.603	0.164	1	
Perfluorononanoic Acid (PFNA)	ND	ng/g	0.301	0.090	1	
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/g	0.301	0.157	1	
Perfluorodecanoic Acid (PFDA)	ND	ng/g	0.301	0.081	1	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ng/g	0.603	0.346	1	
Perfluorononanesulfonic Acid (PFNS)	ND	ng/g	1.20	0.360	1	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ng/g	0.603	0.243	1	
Perfluoroundecanoic Acid (PFUnA)	ND	ng/g	0.603	0.056	1	
Perfluorodecanesulfonic Acid (PFDS)	ND	ng/g	0.603	0.184	1	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ng/g	0.603	0.102	1	
Perfluorododecanoic Acid (PFDoA)	ND	ng/g	0.603	0.084	1	
Perfluorotridecanoic Acid (PFTrDA)	ND	ng/g	0.603	0.246	1	
Perfluorotetradecanoic Acid (PFTA)	ND	ng/g	0.603	0.065	1	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ng/g	12.0	4.59	1	
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ng/g	1.20	0.050	1	
Perfluorohexadecanoic Acid (PFHxDA)	ND	ng/g	3.01	0.145	1	
Perfluoroctadecanoic Acid (PFODA)	ND	ng/g	3.01	0.206	1	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-02	Date Collected:	04/18/23 13:05
Client ID:	SW-02 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.20	0.104	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.20	0.332	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.20	0.045	1
11-Chloroeicosafauro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	1.20	0.047	1
Perfluoropropane Sulfonic Acid (PFPoS)	ND		ng/g	1.20	0.242	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.20	0.181	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.20	0.202	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.20	0.269	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.20	0.183	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	66		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	71		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	72	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	76		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	84		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	103		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	84		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	69	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	118		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	72		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	56		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	71		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	119		50-150



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-02
 Client ID: SW-02 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:05
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 13:10
 Analyst: JW
 Percent Solids: 78%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.603	0.118	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.20	0.457	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.20	0.491	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.41	0.627	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.41	0.880	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		61		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		61		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		76		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		53		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		75		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-03
Client ID: SW-03 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:10
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/22/23 05:00
Analyst: EK
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 02:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	95	J	ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	1400		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	94	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	600		ug/kg	200	68.	1
Butyl benzyl phthalate	64	J	ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-03	Date Collected:	04/18/23 13:10
Client ID:	SW-03 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	640		ug/kg	120	22.	1
Benzo(a)pyrene	680		ug/kg	160	48.	1
Benzo(b)fluoranthene	800		ug/kg	120	33.	1
Benzo(k)fluoranthene	210		ug/kg	120	32.	1
Chrysene	630		ug/kg	120	20.	1
Acenaphthylene	61	J	ug/kg	160	30.	1
Anthracene	230		ug/kg	120	39.	1
Benzo(ghi)perylene	360		ug/kg	160	23.	1
Fluorene	79	J	ug/kg	200	19.	1
Phenanthrene	1000		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	83	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	410		ug/kg	160	28.	1
Pyrene	1300		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	65	J	ug/kg	200	19.	1
2-Methylnaphthalene	38	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-03
 Client ID: SW-03 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:10
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	100	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	34		10-136
4-Terphenyl-d14	63		18-120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-03
Client ID: SW-03 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:10
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 12:07
Analyst: RS
Percent Solids: 83%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.548	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.548	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.274	0.043	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	1.10	0.071	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.548	0.058	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	1.10	0.091	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.274	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.274	0.066	1
Perfluoroctanoic Acid (PFOA)	ND		ng/g	0.274	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.230	J	ng/g	0.548	0.197	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.548	0.150	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.274	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.274	0.142	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.274	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.548	0.314	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	1.10	0.327	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.548	0.221	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.548	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.548	0.168	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.548	0.093	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.548	0.077	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.548	0.224	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.548	0.059	1
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND		ng/g	2.74	1.85	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	1.10	0.045	1
Perfluorohexadecanoic Acid (PFHxDA)	ND		ng/g	2.74	0.131	1
Perfluoroctadecanoic Acid (PFODA)	ND		ng/g	2.74	0.187	1

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-03	Date Collected:	04/18/23 13:10
Client ID:	SW-03 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.10	0.094	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.10	0.301	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.10	0.041	1
11-Chloroeicosafauro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	1.10	0.043	1
Perfluoropropane Sulfonic Acid (PFPoS)	ND		ng/g	1.10	0.220	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.10	0.164	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.10	0.184	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.10	0.245	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.10	0.166	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	86		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	70	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	76		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	81		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	85		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	106		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	84		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	73	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	133		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	62		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	83		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	106		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	73		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	80		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	173	Q	50-150



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-03
 Client ID: SW-03 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:10
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 13:23
 Analyst: JW
 Percent Solids: 83%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.548	0.107	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.10	0.415	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.10	0.446	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.19	0.570	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.19	0.800	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		63		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		69		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		74		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		61		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		63		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-04
Client ID: SW-04 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:15
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/22/23 04:36
Analyst: EK
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 02:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	34	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	410		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	81	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	3200		ug/kg	200	69.	1
Butyl benzyl phthalate	130	J	ug/kg	200	50.	1
Di-n-butylphthalate	66	J	ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-04	Date Collected:	04/18/23 13:15
Client ID:	SW-04 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	190		ug/kg	120	22.	1
Benzo(a)pyrene	200		ug/kg	160	49.	1
Benzo(b)fluoranthene	240		ug/kg	120	34.	1
Benzo(k)fluoranthene	76	J	ug/kg	120	32.	1
Chrysene	190		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	69	J	ug/kg	120	39.	1
Benzo(ghi)perylene	100	J	ug/kg	160	23.	1
Fluorene	31	J	ug/kg	200	19.	1
Phenanthrene	350		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	28	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	120	J	ug/kg	160	28.	1
Pyrene	360		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	32	J	ug/kg	200	19.	1
2-Methylnaphthalene	26	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-04
 Client ID: SW-04 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:15
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	42	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	26		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	17		10-136
4-Terphenyl-d14	58		18-120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-04
Client ID: SW-04 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:15
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 12:24
Analyst: RS
Percent Solids: 82%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.562	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.562	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.281	0.044	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	1.12	0.073	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.562	0.059	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	1.12	0.094	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.281	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.281	0.068	1
Perfluoroctanoic Acid (PFOA)	ND		ng/g	0.281	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.360	J	ng/g	0.562	0.202	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.562	0.154	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.281	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.281	0.146	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.281	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.562	0.323	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	1.12	0.336	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.562	0.227	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.562	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.562	0.172	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.562	0.095	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.562	0.079	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.562	0.230	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.562	0.061	1
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND		ng/g	2.81	1.90	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	1.12	0.047	1
Perfluorohexadecanoic Acid (PFHxDA)	ND		ng/g	2.81	0.135	1
Perfluoroctadecanoic Acid (PFODA)	ND		ng/g	2.81	0.192	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-04	Date Collected:	04/18/23 13:15
Client ID:	SW-04 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.12	0.097	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.12	0.309	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.12	0.042	1
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	1.12	0.044	1
Perfluoropropane Sulfonic Acid (PFPoS)	ND		ng/g	1.12	0.226	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.12	0.169	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.12	0.189	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.12	0.251	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.12	0.170	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	73	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	75		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	90		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	109		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	74	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	126		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	74		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	77		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	112		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	73		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	93		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	139		50-150



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-04
 Client ID: SW-04 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:15
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 13:29
 Analyst: JW
 Percent Solids: 82%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.562	0.110	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.12	0.426	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.12	0.458	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.25	0.585	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.25	0.821	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		58		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		64		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		70		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		57		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		60		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-05
Client ID: SW-05 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:40
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/22/23 03:25
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 02:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	20	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	360		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	31	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	99	J	ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-05	Date Collected:	04/18/23 13:40
Client ID:	SW-05 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	200		ug/kg	110	21.	1
Benzo(a)pyrene	230		ug/kg	150	45.	1
Benzo(b)fluoranthene	280		ug/kg	110	31.	1
Benzo(k)fluoranthene	87	J	ug/kg	110	30.	1
Chrysene	190		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	64	J	ug/kg	110	36.	1
Benzo(ghi)perylene	120	J	ug/kg	150	22.	1
Fluorene	22	J	ug/kg	180	18.	1
Phenanthrene	240		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	33	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	140	J	ug/kg	150	26.	1
Pyrene	340		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-05
 Client ID: SW-05 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:40
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	22	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	57		10-136
4-Terphenyl-d14	75		18-120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-05
Client ID: SW-05 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:40
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 12:40
Analyst: RS
Percent Solids: 87%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND	ng/g	0.541	0.025	1	
Perfluoropentanoic Acid (PFPeA)	ND	ng/g	0.541	0.050	1	
Perfluorobutanesulfonic Acid (PFBS)	ND	ng/g	0.270	0.042	1	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ng/g	1.08	0.070	1	
Perfluorohexanoic Acid (PFHxA)	ND	ng/g	0.541	0.057	1	
Perfluoropentanesulfonic Acid (PFPeS)	ND	ng/g	1.08	0.090	1	
Perfluoroheptanoic Acid (PFHpA)	ND	ng/g	0.270	0.049	1	
Perfluorohexanesulfonic Acid (PFHxS)	ND	ng/g	0.270	0.065	1	
Perfluoroctanoic Acid (PFOA)	ND	ng/g	0.270	0.045	1	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.562	ng/g	0.541	0.194	1	
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ng/g	0.541	0.148	1	
Perfluorononanoic Acid (PFNA)	ND	ng/g	0.270	0.081	1	
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/g	0.270	0.141	1	
Perfluorodecanoic Acid (PFDA)	ND	ng/g	0.270	0.073	1	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ng/g	0.541	0.310	1	
Perfluorononanesulfonic Acid (PFNS)	ND	ng/g	1.08	0.323	1	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ng/g	0.541	0.218	1	
Perfluoroundecanoic Acid (PFUnA)	ND	ng/g	0.541	0.051	1	
Perfluorodecanesulfonic Acid (PFDS)	ND	ng/g	0.541	0.166	1	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ng/g	0.541	0.091	1	
Perfluorododecanoic Acid (PFDoA)	ND	ng/g	0.541	0.076	1	
Perfluorotridecanoic Acid (PFTrDA)	ND	ng/g	0.541	0.221	1	
Perfluorotetradecanoic Acid (PFTA)	ND	ng/g	0.541	0.058	1	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ng/g	2.70	1.83	1	
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ng/g	1.08	0.045	1	
Perfluorohexadecanoic Acid (PFHxDA)	ND	ng/g	2.70	0.130	1	
Perfluoroctadecanoic Acid (PFODA)	ND	ng/g	2.70	0.185	1	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-05	Date Collected:	04/18/23 13:40
Client ID:	SW-05 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.08	0.093	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.08	0.298	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.08	0.041	1
11-Chloroeicosafauro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	1.08	0.042	1
Perfluoropropane Sulfonic Acid (PFPsS)	ND		ng/g	1.08	0.217	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.08	0.162	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.08	0.182	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.08	0.242	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.08	0.164	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	83		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	84		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	68	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	72		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	77		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	82		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	103		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	77	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	68	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	119		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	55		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	71		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	98		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	68		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	84		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	121		50-150

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-05
 Client ID: SW-05 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:40
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 13:35
 Analyst: JW
 Percent Solids: 87%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.541	0.106	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.08	0.410	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.08	0.440	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.16	0.562	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.16	0.790	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		57		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		59		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		69		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		51		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		69		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-06
Client ID: SW-06 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:45
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/22/23 03:49
Analyst: EK
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 02:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	40	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	430		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	30	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	770		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-06	Date Collected:	04/18/23 13:45
Client ID:	SW-06 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	200		ug/kg	120	22.	1
Benzo(a)pyrene	200		ug/kg	160	49.	1
Benzo(b)fluoranthene	220		ug/kg	120	34.	1
Benzo(k)fluoranthene	84	J	ug/kg	120	32.	1
Chrysene	180		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	93	J	ug/kg	120	39.	1
Benzo(ghi)perylene	100	J	ug/kg	160	23.	1
Fluorene	38	J	ug/kg	200	19.	1
Phenanthrene	360		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	26	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	120	J	ug/kg	160	28.	1
Pyrene	360		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	25	J	ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-06
 Client ID: SW-06 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:45
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	42	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	19	Q	25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	12		10-136
4-Terphenyl-d14	62		18-120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-06
Client ID: SW-06 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:45
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 12:56
Analyst: RS
Percent Solids: 82%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.556	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.556	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.278	0.043	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	1.11	0.072	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.556	0.058	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	1.11	0.093	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.278	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.278	0.067	1
Perfluoroctanoic Acid (PFOA)	ND		ng/g	0.278	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.278	J	ng/g	0.556	0.200	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.556	0.152	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.278	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.278	0.145	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.278	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.556	0.319	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	1.11	0.332	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.556	0.224	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.556	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.556	0.170	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.556	0.094	1
Perfluorododecanoic Acid (PFDa)	ND		ng/g	0.556	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.556	0.227	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.556	0.060	1
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND		ng/g	2.78	1.88	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	1.11	0.046	1
Perfluorohexadecanoic Acid (PFHxDA)	ND		ng/g	2.78	0.133	1
Perfluoroctadecanoic Acid (PFODA)	ND		ng/g	2.78	0.190	1

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-06	Date Collected:	04/18/23 13:45
Client ID:	SW-06 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.11	0.096	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.11	0.306	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.11	0.042	1
11-Chloroeicosafauro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	1.11	0.043	1
Perfluoropropane Sulfonic Acid (PFPoS)	ND		ng/g	1.11	0.223	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.11	0.167	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.11	0.187	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.11	0.249	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.11	0.168	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	87		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	75		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	80		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	100		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	90		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	108		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	72	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	132		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	53		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	78		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	112		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	73		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	95		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	141		50-150



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-06
 Client ID: SW-06 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:45
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 13:41
 Analyst: JW
 Percent Solids: 82%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.556	0.109	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.11	0.422	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.11	0.453	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.22	0.578	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.22	0.812	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		61		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		71		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		69		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		61		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		63		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-07
Client ID: SW-07 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:50
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/22/23 07:48
Analyst: EK
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 02:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	2900		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	19000	E	ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	2000		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	1100		ug/kg	200	69.	1
Butyl benzyl phthalate	56	J	ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-07	Date Collected:	04/18/23 13:50
Client ID:	SW-07 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	10000	E	ug/kg	120	22.	1
Benzo(a)pyrene	9600	E	ug/kg	160	49.	1
Benzo(b)fluoranthene	12000	E	ug/kg	120	34.	1
Benzo(k)fluoranthene	3800		ug/kg	120	32.	1
Chrysene	9600	E	ug/kg	120	21.	1
Acenaphthylene	150	J	ug/kg	160	31.	1
Anthracene	6900		ug/kg	120	39.	1
Benzo(ghi)perylene	5300		ug/kg	160	23.	1
Fluorene	2400		ug/kg	200	19.	1
Phenanthrene	20000	E	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	1100		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	6000		ug/kg	160	28.	1
Pyrene	17000	E	ug/kg	120	20.	1
Biphenyl	310	J	ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	2900		ug/kg	200	19.	1
2-Methylnaphthalene	1000		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-07	Date Collected:	04/18/23 13:50
Client ID:	SW-07 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	3300		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	18	Q	25-120
Phenol-d6	52		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	13		10-136
4-Terphenyl-d14	68		18-120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-07
Client ID: SW-07 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:50
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 13:13
Analyst: RS
Percent Solids: 83%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.530	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.530	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.265	0.041	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	1.06	0.068	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.530	0.056	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	1.06	0.089	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.265	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.265	0.064	1
Perfluoroctanoic Acid (PFOA)	ND		ng/g	0.265	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.281	J	ng/g	0.530	0.190	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.530	0.145	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.265	0.080	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.265	0.138	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.265	0.071	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.530	0.304	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	1.06	0.317	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMfFOSAA)	ND		ng/g	0.530	0.214	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.530	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.530	0.162	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.530	0.090	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.530	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.530	0.217	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.530	0.057	1
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND		ng/g	2.65	1.79	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	1.06	0.044	1
Perfluorohexadecanoic Acid (PFHxDA)	ND		ng/g	2.65	0.127	1
Perfluoroctadecanoic Acid (PFODA)	ND		ng/g	2.65	0.181	1

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-07	Date Collected:	04/18/23 13:50
Client ID:	SW-07 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.06	0.091	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.06	0.292	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.06	0.040	1
11-Chloroeicosafauro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDs)	ND		ng/g	1.06	0.041	1
Perfluoropropane Sulfonic Acid (PFPs)	ND		ng/g	1.06	0.213	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.06	0.159	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.06	0.178	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.06	0.237	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.06	0.161	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	73	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	79		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	100		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	86		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	110		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	84		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	71	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	128		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	61		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	73		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	107		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	75		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	85		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	131		50-150

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-07
 Client ID: SW-07 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:50
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 13:47
 Analyst: JW
 Percent Solids: 83%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.530	0.104	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.06	0.402	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.06	0.432	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.12	0.552	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.12	0.774	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		55		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		68		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		69		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		53		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		59		10-129		

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-07	D	Date Collected:	04/18/23 13:50
Client ID:	SW-07 (5')		Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	04/21/23 02:09
Analytical Date:	04/23/23 22:03		
Analyst:	CMM		
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	34000		ug/kg	1200	230	10
Benzo(a)anthracene	11000		ug/kg	1200	220	10
Benzo(a)pyrene	9000		ug/kg	1600	490	10
Benzo(b)fluoranthene	11000		ug/kg	1200	340	10
Chrysene	10000		ug/kg	1200	210	10
Phenanthrene	34000		ug/kg	1200	240	10
Pyrene	26000		ug/kg	1200	200	10

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-08
Client ID: SW-08 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:55
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/22/23 05:23
Analyst: EK
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 02:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	150	J	ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	860		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	150	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	820		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-08	Date Collected:	04/18/23 13:55
Client ID:	SW-08 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	420		ug/kg	120	22.	1
Benzo(a)pyrene	460		ug/kg	160	48.	1
Benzo(b)fluoranthene	520		ug/kg	120	33.	1
Benzo(k)fluoranthene	190		ug/kg	120	32.	1
Chrysene	390		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	220		ug/kg	120	39.	1
Benzo(ghi)perylene	250		ug/kg	160	23.	1
Fluorene	110	J	ug/kg	200	19.	1
Phenanthrene	730		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	60	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	280		ug/kg	160	28.	1
Pyrene	740		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	69	J	ug/kg	200	19.	1
2-Methylnaphthalene	49	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	36	J	ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-08
 Client ID: SW-08 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:55
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	90	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	11	Q	25-120
Phenol-d6	39		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	8	Q	10-136
4-Terphenyl-d14	62		18-120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-08
Client ID: SW-08 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:55
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 13:29
Analyst: RS
Percent Solids: 82%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND	ng/g	0.559	0.025	1	
Perfluoropentanoic Acid (PFPeA)	ND	ng/g	0.559	0.051	1	
Perfluorobutanesulfonic Acid (PFBS)	ND	ng/g	0.280	0.044	1	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ng/g	1.12	0.072	1	
Perfluorohexanoic Acid (PFHxA)	ND	ng/g	0.559	0.059	1	
Perfluoropentanesulfonic Acid (PFPeS)	ND	ng/g	1.12	0.093	1	
Perfluoroheptanoic Acid (PFHpA)	ND	ng/g	0.280	0.050	1	
Perfluorohexanesulfonic Acid (PFHxS)	ND	ng/g	0.280	0.068	1	
Perfluoroctanoic Acid (PFOA)	ND	ng/g	0.280	0.047	1	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ng/g	0.559	0.201	1	
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ng/g	0.559	0.153	1	
Perfluorononanoic Acid (PFNA)	ND	ng/g	0.280	0.084	1	
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/g	0.280	0.145	1	
Perfluorodecanoic Acid (PFDA)	ND	ng/g	0.280	0.075	1	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ng/g	0.559	0.321	1	
Perfluorononanesulfonic Acid (PFNS)	ND	ng/g	1.12	0.334	1	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ng/g	0.559	0.225	1	
Perfluoroundecanoic Acid (PFUnA)	ND	ng/g	0.559	0.052	1	
Perfluorodecanesulfonic Acid (PFDS)	ND	ng/g	0.559	0.171	1	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ng/g	0.559	0.095	1	
Perfluorododecanoic Acid (PFDoA)	ND	ng/g	0.559	0.078	1	
Perfluorotridecanoic Acid (PFTrDA)	ND	ng/g	0.559	0.229	1	
Perfluorotetradecanoic Acid (PFTA)	ND	ng/g	0.559	0.060	1	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ng/g	2.80	1.89	1	
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ng/g	1.12	0.046	1	
Perfluorohexadecanoic Acid (PFHxDA)	ND	ng/g	2.80	0.134	1	
Perfluoroctadecanoic Acid (PFODA)	ND	ng/g	2.80	0.191	1	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-08
Client ID: SW-08 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:55
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.12	0.096	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.12	0.308	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.12	0.042	1
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	1.12	0.043	1
Perfluoropropane Sulfonic Acid (PFPsS)	ND		ng/g	1.12	0.224	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.12	0.168	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.12	0.188	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.12	0.250	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.12	0.169	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	82		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	67	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	48		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	76		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	79		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	80		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	70		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	83		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	79		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	66	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	86		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	35		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	70		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	52		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	98		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	67		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	89		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	109		50-150



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-08
 Client ID: SW-08 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:55
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 13:53
 Analyst: JW
 Percent Solids: 82%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.559	0.110	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.12	0.424	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.12	0.455	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.24	0.582	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.24	0.816	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		57		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		66		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		69		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		60		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		59		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-08 RE
Client ID: SW-08 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:55
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/24/23 12:27
Analyst: IM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 11:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	110	J	ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	1200		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	92	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	940		ug/kg	200	68.	1
Butyl benzyl phthalate	70	J	ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-08	RE	Date Collected:	04/18/23 13:55
Client ID:	SW-08 (5')		Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	490		ug/kg	120	22.	1
Benzo(a)pyrene	520		ug/kg	160	48.	1
Benzo(b)fluoranthene	600		ug/kg	120	33.	1
Benzo(k)fluoranthene	230		ug/kg	120	32.	1
Chrysene	460		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	220		ug/kg	120	39.	1
Benzo(ghi)perylene	270		ug/kg	160	23.	1
Fluorene	96	J	ug/kg	200	19.	1
Phenanthrene	1000		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	74	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	310		ug/kg	160	28.	1
Pyrene	1000		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	76	J	ug/kg	200	19.	1
2-Methylnaphthalene	37	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	130	J	ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-08	RE	Date Collected:	04/18/23 13:55
Client ID:	SW-08 (5')		Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	130	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	12	Q	25-120
Phenol-d6	47		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	8	Q	10-136
4-Terphenyl-d14	73		18-120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-09
Client ID: ST-01 (6')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:20
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/22/23 04:12
Analyst: EK
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 02:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	85	J	ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	610		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	160	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	58	J	ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	830		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-09	Date Collected:	04/18/23 13:20
Client ID:	ST-01 (6')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	290		ug/kg	120	22.	1
Benzo(a)pyrene	290		ug/kg	160	47.	1
Benzo(b)fluoranthene	340		ug/kg	120	33.	1
Benzo(k)fluoranthene	110	J	ug/kg	120	31.	1
Chrysene	260		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	140		ug/kg	120	38.	1
Benzo(ghi)perylene	160		ug/kg	160	23.	1
Fluorene	60	J	ug/kg	190	19.	1
Phenanthrene	480		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	40	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	180		ug/kg	160	27.	1
Pyrene	510		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	38	J	ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-09
 Client ID: ST-01 (6')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:20
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	60	J	ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	17	Q	25-120
Phenol-d6	49		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	13		10-136
4-Terphenyl-d14	67		18-120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-09
Client ID: ST-01 (6')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:20
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 13:45
Analyst: RS
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND	ng/g	0.579	0.026	1	
Perfluoropentanoic Acid (PFPeA)	ND	ng/g	0.579	0.053	1	
Perfluorobutanesulfonic Acid (PFBS)	ND	ng/g	0.290	0.045	1	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ng/g	1.16	0.075	1	
Perfluorohexanoic Acid (PFHxA)	ND	ng/g	0.579	0.061	1	
Perfluoropentanesulfonic Acid (PFPeS)	ND	ng/g	1.16	0.097	1	
Perfluoroheptanoic Acid (PFHpA)	ND	ng/g	0.290	0.052	1	
Perfluorohexanesulfonic Acid (PFHxS)	ND	ng/g	0.290	0.070	1	
Perfluoroctanoic Acid (PFOA)	ND	ng/g	0.290	0.049	1	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ng/g	0.579	0.208	1	
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ng/g	0.579	0.158	1	
Perfluorononanoic Acid (PFNA)	ND	ng/g	0.290	0.087	1	
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/g	0.290	0.151	1	
Perfluorodecanoic Acid (PFDA)	ND	ng/g	0.290	0.078	1	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ng/g	0.579	0.332	1	
Perfluorononanesulfonic Acid (PFNS)	ND	ng/g	1.16	0.346	1	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ng/g	0.579	0.233	1	
Perfluoroundecanoic Acid (PFUnA)	ND	ng/g	0.579	0.054	1	
Perfluorodecanesulfonic Acid (PFDS)	ND	ng/g	0.579	0.177	1	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ng/g	0.579	0.098	1	
Perfluorododecanoic Acid (PFDoA)	ND	ng/g	0.579	0.081	1	
Perfluorotridecanoic Acid (PFTrDA)	ND	ng/g	0.579	0.237	1	
Perfluorotetradecanoic Acid (PFTA)	ND	ng/g	0.579	0.063	1	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ng/g	2.90	1.96	1	
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ng/g	1.16	0.048	1	
Perfluorohexadecanoic Acid (PFHxDA)	ND	ng/g	2.90	0.139	1	
Perfluoroctadecanoic Acid (PFODA)	ND	ng/g	2.90	0.198	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-09	Date Collected:	04/18/23 13:20
Client ID:	ST-01 (6')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.16	0.100	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.16	0.319	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.16	0.043	1
11-Chloroeicosafauro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDs)	ND		ng/g	1.16	0.045	1
Perfluoropropane Sulfonic Acid (PFPsS)	ND		ng/g	1.16	0.232	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.16	0.174	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.16	0.195	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.16	0.259	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.16	0.176	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	86		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	71	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	70		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	79		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	84		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	84		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	105		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	83		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	70	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	122		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	45		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	73		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	69		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	107		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	68		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	94		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	127		50-150

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-09
 Client ID: ST-01 (6')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:20
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 14:00
 Analyst: JW
 Percent Solids: 84%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.579	0.114	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.16	0.439	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.16	0.472	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.32	0.602	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.32	0.846	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		58		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		63		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		70		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		58		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		57		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-10
Client ID: ST-02 (6')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 14:00
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/22/23 01:51
Analyst: EK
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 02:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	25	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	160		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	67	J	ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	55	J	ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-10	Date Collected:	04/18/23 14:00
Client ID:	ST-02 (6')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	73	J	ug/kg	110	21.	1
Benzo(a)pyrene	81	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	89	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	68	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	40	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	150		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	52	J	ug/kg	150	26.	1
Pyrene	140		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	25.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	36	J	ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-10
 Client ID: ST-02 (6')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 14:00
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1
Surrogate		% Recovery		Qualifier	Acceptance Criteria	
2-Fluorophenol		64			25-120	
Phenol-d6		62			10-120	
Nitrobenzene-d5		63			23-120	
2-Fluorobiphenyl		61			30-120	
2,4,6-Tribromophenol		46			10-136	
4-Terphenyl-d14		61			18-120	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-10
Client ID: ST-02 (6')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 14:00
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 14:02
Analyst: RS
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND	ng/g	0.512	0.023	1	
Perfluoropentanoic Acid (PFPeA)	ND	ng/g	0.512	0.047	1	
Perfluorobutanesulfonic Acid (PFBS)	ND	ng/g	0.256	0.040	1	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ng/g	1.02	0.066	1	
Perfluorohexanoic Acid (PFHxA)	ND	ng/g	0.512	0.054	1	
Perfluoropentanesulfonic Acid (PFPeS)	ND	ng/g	1.02	0.086	1	
Perfluoroheptanoic Acid (PFHpA)	ND	ng/g	0.256	0.046	1	
Perfluorohexanesulfonic Acid (PFHxS)	ND	ng/g	0.256	0.062	1	
Perfluoroctanoic Acid (PFOA)	ND	ng/g	0.256	0.043	1	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ng/g	0.512	0.184	1	
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ng/g	0.512	0.140	1	
Perfluorononanoic Acid (PFNA)	ND	ng/g	0.256	0.077	1	
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/g	0.256	0.133	1	
Perfluorodecanoic Acid (PFDA)	ND	ng/g	0.256	0.069	1	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ng/g	0.512	0.294	1	
Perfluorononanesulfonic Acid (PFNS)	ND	ng/g	1.02	0.306	1	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ng/g	0.512	0.206	1	
Perfluoroundecanoic Acid (PFUnA)	ND	ng/g	0.512	0.048	1	
Perfluorodecanesulfonic Acid (PFDS)	ND	ng/g	0.512	0.157	1	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ng/g	0.512	0.087	1	
Perfluorododecanoic Acid (PFDoA)	ND	ng/g	0.512	0.072	1	
Perfluorotridecanoic Acid (PFTrDA)	ND	ng/g	0.512	0.209	1	
Perfluorotetradecanoic Acid (PFTA)	ND	ng/g	0.512	0.055	1	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ng/g	2.56	1.73	1	
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ng/g	1.02	0.042	1	
Perfluorohexadecanoic Acid (PFHxDA)	ND	ng/g	2.56	0.123	1	
Perfluoroctadecanoic Acid (PFODA)	ND	ng/g	2.56	0.175	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-10	Date Collected:	04/18/23 14:00
Client ID:	ST-02 (6')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.02	0.088	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.02	0.282	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.02	0.038	1
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	1.02	0.040	1
Perfluoropropane Sulfonic Acid (PFPoS)	ND		ng/g	1.02	0.205	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.02	0.154	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.02	0.172	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.02	0.229	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.02	0.155	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	75		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	74		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	120		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	72	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	129		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	54		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	76		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	75		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	104		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	73		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	97		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	135		50-150

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-10
 Client ID: ST-02 (6')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 14:00
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 14:12
 Analyst: JW
 Percent Solids: 85%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.512	0.100	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.02	0.388	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.02	0.417	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.05	0.532	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.05	0.747	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		62		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		69		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		75		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		62		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		64		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/21/23 09:26
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/21/23 02:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10				Batch:	WG1769308-1
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/21/23 09:26
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/21/23 02:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10				Batch:	WG1769308-1
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/21/23 09:26
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/21/23 02:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10				Batch: WG1769308-1	
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	53		18-120



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/24/23 11:17
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/23/23 09:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1770070-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/24/23 11:17
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/23/23 09:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08				Batch:	WG1770070-1
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/24/23 11:17
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/23/23 09:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1770070-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	83		18-120



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/27/23 16:36
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s):	01-10			Batch:	WG1771537-1
Perfluorobutanoic Acid (PFBA)	0.065	J	ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	1.00	0.065
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	1.00	0.084
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	1.00	0.299
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDa)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND		ng/g	10.0	3.81
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	1.00	0.041
Perfluorohexadecanoic Acid (PFHxDA)	ND		ng/g	2.50	0.120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/27/23 16:36
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s):	01-10			Batch:	WG1771537-1
Perfluorooctadecanoic Acid (PFODA)	ND		ng/g	2.50	0.171
Perfluorododecane Sulfonic Acid (PFDsDS)	ND		ng/g	1.00	0.086
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.00	0.275
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.00	0.037
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	1.00	0.039
Perfluoropropene Sulfonic Acid (PFPrS)	ND		ng/g	1.00	0.200
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.00	0.150
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.00	0.168
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.00	0.224
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.00	0.152

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/27/23 16:36
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-10				Batch: WG1771537-1	

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	65		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	73		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	139		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	74		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	77		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	164	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	83		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	67	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	188	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	62		61-155
N-Deuteroethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	97		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	66		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	52		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	48		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	133		50-150

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 12:15
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-10				Batch:	WG1771537-1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.00	0.379
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.00	0.407
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.00	0.520
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.00	0.730

Surrogate (Extracted Internal Standard)	%Recovery	Acceptance Criteria	
		Qualifier	Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	62		5-117
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	78		10-146
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	81		10-145
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)	69		10-146
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)	70		10-129

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1769308-2 WG1769308-3								
Acenaphthene	65		64		31-137	2		50
1,2,4-Trichlorobenzene	64		64		38-107	0		50
Hexachlorobenzene	71		71		40-140	0		50
Bis(2-chloroethyl)ether	58		59		40-140	2		50
2-Chloronaphthalene	66		67		40-140	2		50
1,2-Dichlorobenzene	60		59		40-140	2		50
1,3-Dichlorobenzene	58		58		40-140	0		50
1,4-Dichlorobenzene	59		57		28-104	3		50
3,3'-Dichlorobenzidine	65		65		40-140	0		50
2,4-Dinitrotoluene	48		54		40-132	12		50
2,6-Dinitrotoluene	51		53		40-140	4		50
Fluoranthene	63		64		40-140	2		50
4-Chlorophenyl phenyl ether	66		67		40-140	2		50
4-Bromophenyl phenyl ether	71		71		40-140	0		50
Bis(2-chloroisopropyl)ether	57		57		40-140	0		50
Bis(2-chloroethoxy)methane	62		63		40-117	2		50
Hexachlorobutadiene	63		62		40-140	2		50
Hexachlorocyclopentadiene	49		57		40-140	15		50
Hexachloroethane	41		43		40-140	5		50
Isophorone	60		60		40-140	0		50
Naphthalene	60		59		40-140	2		50
Nitrobenzene	57		60		40-140	5		50
NDPA/DPA	68		69		36-157	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1769308-2 WG1769308-3								
n-Nitrosodi-n-propylamine	63		63		32-121	0		50
Bis(2-ethylhexyl)phthalate	66		66		40-140	0		50
Butyl benzyl phthalate	59		60		40-140	2		50
Di-n-butylphthalate	63		63		40-140	0		50
Di-n-octylphthalate	66		66		40-140	0		50
Diethyl phthalate	63		64		40-140	2		50
Dimethyl phthalate	65		66		40-140	2		50
Benzo(a)anthracene	68		68		40-140	0		50
Benzo(a)pyrene	71		71		40-140	0		50
Benzo(b)fluoranthene	64		66		40-140	3		50
Benzo(k)fluoranthene	69		68		40-140	1		50
Chrysene	66		67		40-140	2		50
Acenaphthylene	70		72		40-140	3		50
Anthracene	67		68		40-140	1		50
Benzo(ghi)perylene	73		75		40-140	3		50
Fluorene	67		67		40-140	0		50
Phenanthrene	66		65		40-140	2		50
Dibenzo(a,h)anthracene	68		72		40-140	6		50
Indeno(1,2,3-cd)pyrene	72		74		40-140	3		50
Pyrene	63		65		35-142	3		50
Biphenyl	69		70		37-127	1		50
4-Chloroaniline	39	Q	35	Q	40-140	11		50
2-Nitroaniline	74		76		47-134	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1769308-2 WG1769308-3								
3-Nitroaniline	74		71		26-129	4		50
4-Nitroaniline	81		82		41-125	1		50
Dibenzofuran	69		67		40-140	3		50
2-Methylnaphthalene	67		68		40-140	1		50
1,2,4,5-Tetrachlorobenzene	69		69		40-117	0		50
Acetophenone	66		65		14-144	2		50
2,4,6-Trichlorophenol	79		81		30-130	3		50
p-Chloro-m-cresol	66		69		26-103	4		50
2-Chlorophenol	63		62		25-102	2		50
2,4-Dichlorophenol	70		72		30-130	3		50
2,4-Dimethylphenol	65		64		30-130	2		50
2-Nitrophenol	39		42		30-130	7		50
4-Nitrophenol	73		76		11-114	4		50
2,4-Dinitrophenol	14		16		4-130	13		50
4,6-Dinitro-o-cresol	10		12		10-130	18		50
Pentachlorophenol	95		102		17-109	7		50
Phenol	63		63		26-90	0		50
2-Methylphenol	62		61		30-130.	2		50
3-Methylphenol/4-Methylphenol	64		65		30-130	2		50
2,4,5-Trichlorophenol	80		80		30-130	0		50
Benzoic Acid	40		50		10-110	22		50
Benzyl Alcohol	66		66		40-140	0		50
Carbazole	67		68		54-128	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1769308-2 WG1769308-3								
1,4-Dioxane	42		39	Q	40-140	7		50

Surrogate	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	Acceptance Criteria
2-Fluorophenol	65		66		25-120
Phenol-d6	63		65		10-120
Nitrobenzene-d5	58		60		23-120
2-Fluorobiphenyl	66		66		30-120
2,4,6-Tribromophenol	80		81		10-136
4-Terphenyl-d14	63		67		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1770070-2 WG1770070-3								
Acenaphthene	73		65		31-137	12		50
1,2,4-Trichlorobenzene	72		65		38-107	10		50
Hexachlorobenzene	75		68		40-140	10		50
Bis(2-chloroethyl)ether	74		66		40-140	11		50
2-Chloronaphthalene	75		67		40-140	11		50
1,2-Dichlorobenzene	73		65		40-140	12		50
1,3-Dichlorobenzene	72		63		40-140	13		50
1,4-Dichlorobenzene	71		62		28-104	14		50
3,3'-Dichlorobenzidine	53		48		40-140	10		50
2,4-Dinitrotoluene	79		69		40-132	14		50
2,6-Dinitrotoluene	75		64		40-140	16		50
Fluoranthene	76		65		40-140	16		50
4-Chlorophenyl phenyl ether	75		68		40-140	10		50
4-Bromophenyl phenyl ether	77		66		40-140	15		50
Bis(2-chloroisopropyl)ether	68		61		40-140	11		50
Bis(2-chloroethoxy)methane	76		68		40-117	11		50
Hexachlorobutadiene	69		61		40-140	12		50
Hexachlorocyclopentadiene	73		65		40-140	12		50
Hexachloroethane	64		58		40-140	10		50
Isophorone	73		65		40-140	12		50
Naphthalene	77		69		40-140	11		50
Nitrobenzene	73		65		40-140	12		50
NDPA/DPA	76		68		36-157	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1770070-2 WG1770070-3								
n-Nitrosodi-n-propylamine	73		64		32-121	13		50
Bis(2-ethylhexyl)phthalate	76		65		40-140	16		50
Butyl benzyl phthalate	75		66		40-140	13		50
Di-n-butylphthalate	76		66		40-140	14		50
Di-n-octylphthalate	79		70		40-140	12		50
Diethyl phthalate	73		65		40-140	12		50
Dimethyl phthalate	73		64		40-140	13		50
Benzo(a)anthracene	77		66		40-140	15		50
Benzo(a)pyrene	93		80		40-140	15		50
Benzo(b)fluoranthene	82		71		40-140	14		50
Benzo(k)fluoranthene	88		74		40-140	17		50
Chrysene	76		66		40-140	14		50
Acenaphthylene	82		73		40-140	12		50
Anthracene	77		67		40-140	14		50
Benzo(ghi)perylene	75		63		40-140	17		50
Fluorene	76		68		40-140	11		50
Phenanthrene	75		67		40-140	11		50
Dibenzo(a,h)anthracene	78		68		40-140	14		50
Indeno(1,2,3-cd)pyrene	77		66		40-140	15		50
Pyrene	75		64		35-142	16		50
Biphenyl	76		67		37-127	13		50
4-Chloroaniline	73		65		40-140	12		50
2-Nitroaniline	79		70		47-134	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1770070-2 WG1770070-3								
3-Nitroaniline	64		56		26-129	13		50
4-Nitroaniline	80		70		41-125	13		50
Dibenzofuran	79		69		40-140	14		50
2-Methylnaphthalene	77		68		40-140	12		50
1,2,4,5-Tetrachlorobenzene	77		66		40-117	15		50
Acetophenone	78		70		14-144	11		50
2,4,6-Trichlorophenol	79		68		30-130	15		50
p-Chloro-m-cresol	78		67		26-103	15		50
2-Chlorophenol	76		68		25-102	11		50
2,4-Dichlorophenol	78		69		30-130	12		50
2,4-Dimethylphenol	75		66		30-130	13		50
2-Nitrophenol	76		69		30-130	10		50
4-Nitrophenol	88		74		11-114	17		50
2,4-Dinitrophenol	64		59		4-130	8		50
4,6-Dinitro-o-cresol	81		70		10-130	15		50
Pentachlorophenol	76		70		17-109	8		50
Phenol	80		72		26-90	11		50
2-Methylphenol	79		67		30-130.	16		50
3-Methylphenol/4-Methylphenol	81		72		30-130	12		50
2,4,5-Trichlorophenol	83		72		30-130	14		50
Benzoic Acid	25		28		10-110	11		50
Benzyl Alcohol	79		72		40-140	9		50
Carbazole	81		69		54-128	16		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1770070-2 WG1770070-3								
1,4-Dioxane	47		42		40-140	11		50

Surrogate	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	Acceptance Criteria
2-Fluorophenol	78		74		25-120
Phenol-d6	79		72		10-120
Nitrobenzene-d5	75		67		23-120
2-Fluorobiphenyl	76		68		30-120
2,4,6-Tribromophenol	78		73		10-136
4-Terphenyl-d14	75		64		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 Batch: WG1771537-2								
Perfluorobutanoic Acid (PFBA)	110		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	113		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	109		-		72-128	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	96		-		62-145	-		30
Perfluorohexanoic Acid (PFHxA)	112		-		70-132	-		30
Perfluoropentanesulfonic Acid (PFPeS)	100		-		73-123	-		30
Perfluoroheptanoic Acid (PFHpA)	113		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	93		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	105		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	102		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	98		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	73		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	83		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	108		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	96		-		65-137	-		30
Perfluorononanesulfonic Acid (PFNS)	103		-		69-125	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	109		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	106		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	111		-		59-134	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	107		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	116		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	115		-		66-139	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	LCSD %Recovery	RPD	%Recovery Limits	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 Batch: WG1771537-2						
Perfluorotetradecanoic Acid (PFTA)	113	-	-	69-133	-	30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	122	-	-	41-165	-	30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	98	-	-	61-135	-	30
Perfluorohexadecanoic Acid (PFHxDA)	104	-	-	18-191	-	30
Perfluorooctadecanoic Acid (PFODA)	5	Q	-	10-123	-	30
Perfluorododecane Sulfonic Acid (PFDoDS)	97	-	-	36-118	-	30
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	114	-	-	37-261	-	30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	99	-	-	69-139	-	30
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	107	-	-	51-155	-	30
Perfluoropropane Sulfonic Acid (PFPrS)	124	-	-	50-150	-	30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	102	-	-	50-150	-	30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	113	-	-	50-150	-	30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	95	-	-	50-150	-	30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	72	-	-	50-150	-	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	<i>LCS</i> %Recovery	<i>LCSD</i> %Recovery	%Recovery Limits		<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
	Qual	Qual	Qual	Qual	Qual	Qual	Qual
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 Batch: WG1771537-2							
Surrogate (Extracted Internal Standard)			<i>LCS</i> %Recovery	<i>LCSD</i> %Recovery			Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)			73				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)			75				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)			73		Q		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)			87				14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)			83				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHxA)			79				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)			83				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)			84				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)			115				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)			91				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)			86				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)			71		Q		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)			131				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)			77				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFDA)			73				61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)			106				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)			79				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)			97				24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)			53				10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)			61				10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)			116				50-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 Batch: WG1771537-2								
Perfluoroctanesulfonamide (FOSA)	93		-		67-137	-		30
N-Methyl Perfluoroctane Sulfonamide (NMeFOSA)	95		-		62-149	-		30
N-Ethyl Perfluoroctane Sulfonamide (NEtFOSA)	96		-		71-156	-		30
N-Methyl Perfluoroctanesulfonamido Ethanol (NMeFOSE)	78		-		10-239	-		30
N-Ethyl Perfluoroctanesulfonamido Ethanol (NEtFOSE)	113		-		10-275	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	67				5-117
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	82				10-146
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	88				10-145
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)	75				10-146
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)	66				10-129

Matrix Spike Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual	Limits	RPD	RPD Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab				Associated sample(s): 01-10		QC Batch ID: WG1771537-5		QC Sample: L2320723-01		Client ID: SW-01 (5')		
Perfluorobutanoic Acid (PFBA)	ND	6.86	7.54	110		-	-	71-135	-	30		
Perfluoropentanoic Acid (PFPeA)	ND	6.86	7.75	113		-	-	69-132	-	30		
Perfluorobutanesulfonic Acid (PFBS)	ND	6.09	6.52	107		-	-	72-128	-	30		
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.44	6.22	97		-	-	62-145	-	30		
Perfluorohexanoic Acid (PFHxA)	ND	6.86	7.93	116		-	-	70-132	-	30		
Perfluoropentanesulfonic Acid (PFPeS)	ND	6.46	6.59	102		-	-	73-123	-	30		
Perfluoroheptanoic Acid (PFHpA)	ND	6.86	7.90	115		-	-	71-131	-	30		
Perfluorohexanesulfonic Acid (PFHxS)	ND	6.27	5.82	93		-	-	67-130	-	30		
Perfluorooctanoic Acid (PFOA)	ND	6.86	7.37	107		-	-	69-133	-	30		
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.53	6.11	94		-	-	64-140	-	30		
Perfluoroheptanesulfonic Acid (PFHps)	ND	6.54	6.74	103		-	-	70-132	-	30		
Perfluorononanoic Acid (PFNA)	ND	6.86	5.19	76		-	-	72-129	-	30		
Perfluorooctanesulfonic Acid (PFOS)	ND	6.37	5.34	84		-	-	68-136	-	30		
Perfluorodecanoic Acid (PFDA)	ND	6.86	7.59	111		-	-	69-133	-	30		
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.59	6.35	96		-	-	65-137	-	30		
Perfluorononanesulfonic Acid (PFNS)	ND	6.6	6.15	93		-	-	69-125	-	30		
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	6.86	7.82	114		-	-	63-144	-	30		
Perfluoroundecanoic Acid (PFUnA)	ND	6.86	7.03	102		-	-	64-136	-	30		
Perfluorodecanesulfonic Acid (PFDS)	ND	6.63	5.97	90		-	-	59-134	-	30		
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	6.86	7.02	102		-	-	61-139	-	30		
Perfluorododecanoic Acid (PFDoA)	ND	6.86	7.28	106		-	-	69-135	-	30		
Perfluorotridecanoic Acid (PFTrDA)	ND	6.86	7.36	107		-	-	66-139	-	30		

Matrix Spike Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab 01 (5')				Associated sample(s): 01-10		QC Batch ID: WG1771537-5		QC Sample: L2320723-01	Client ID: SW-			
Perfluorotetradecanoic Acid (PFTA)	ND	6.86	7.91	115		-	-	-	69-133	-	-	30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	66.9	81.2	121		-	-	-	41-165	-	-	30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.49	6.96	107		-	-	-	61-135	-	-	30
Perfluorohexadecanoic Acid (PFHxDA)	ND	6.86	7.44	108		-	-	-	18-191	-	-	30
Perfluoroctadecanoic Acid (PFODA)	ND	6.86	0.604J	9	Q	-	-	-	10-123	-	-	30
Perfluorododecane Sulfonic Acid (PFDODS)	ND	6.64	5.43	82		-	-	-	36-118	-	-	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (10:2FTS)	ND	6.63	6.86	104		-	-	-	37-261	-	-	30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.41	6.36	99		-	-	-	67-139	-	-	30
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.48	5.72	88		-	-	-	51-155	-	-	30
Perfluoropropane Sulfonic Acid (PFPrS)	ND	6.31	7.64	121		-	-	-	50-150	-	-	30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	6.86	7.11	104		-	-	-	50-150	-	-	30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	6.86	7.73	113		-	-	-	50-150	-	-	30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	6.1	6.17	101		-	-	-	50-150	-	-	30
Nonfluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	6.86	5.13	75		-	-	-	50-150	-	-	30

Surrogate (Extracted Internal Standard)	MS	MSD		Acceptance Criteria	
	% Recovery	Qualifier	% Recovery	Qualifier	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	119				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	93				14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	120				20-154

Matrix Spike Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01-10	QC Batch ID: WG1771537-5	QC Sample: L2320723-01	Client ID: SW-01 (5')								
Surrogate (Extracted Internal Standard)												
	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria							
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	87				50-150							
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	61				10-203							
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	72				34-137							
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	50				31-134							
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	64				61-155							
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	69	Q			75-130							
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83				66-128							
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85				71-129							
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94				78-139							
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	68				54-150							
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74				24-159							
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	65				10-145							
Perfluoro[13C4]Butanoic Acid (MPFBA)	69				61-135							
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	73				58-150							
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	83				79-136							
Perfluoro[13C8]Octanoic Acid (M8PFOA)	83				75-130							
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	84				72-140							
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86				74-139							

Matrix Spike Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1771537-5 QC Sample: L2320723-01 Client ID: SW-01 (5')												
Perfluoroctanesulfonamide (FOSA)	ND	6.86	6.67	97		-	-	-	67-137	-	-	30
N-Methyl Perfluoroctane Sulfonamide (NMeFOSA)	ND	34.3	35.5	103		-	-	-	62-149	-	-	30
N-Ethyl Perfluoroctane Sulfonamide (NEtFOSA)	ND	34.3	34.5	101		-	-	-	71-156	-	-	30
N-Methyl Perfluoroctanesulfonamido Ethanol (NMeFOSE)	ND	17.2	17.3	101		-	-	-	10-239	-	-	30
N-Ethyl Perfluoroctanesulfonamido Ethanol (NEtFOSE)	ND	17.2	19.3	113		-	-	-	10-275	-	-	30

Surrogate (Extracted Internal Standard)	MS	MS		MSD	MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	% Recovery	Qualifier	
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)	72						10-129
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)	61						10-146
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	75						10-145
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	68						10-146
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61						5-117

Lab Duplicate Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1771537-6 QC Sample: L2320723-02 Client ID: SW-02 (5')						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.926	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluoronananesulfonic Acid (PFNS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1771537-6 QC Sample: L2320723-02 Client ID: SW-02 (5')						
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ND	ng/g	NC		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/g	NC		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	ND	ng/g	NC		30
Perfluorooctadecanoic Acid (PFODA)	ND	ND	ng/g	NC		30
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND	ND	ng/g	NC		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	ND	ng/g	NC		30
11-Chloroeicosafauro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUds)	ND	ND	ng/g	NC		30
Perfluoropropane Sulfonic Acid (PFPrS)	ND	ND	ng/g	NC		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	ND	ng/g	NC		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	ND	ng/g	NC		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	ND	ng/g	NC		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	66		84		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	71		84		58-150

Lab Duplicate Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1771537-6 QC Sample: L2320723-02 Client ID: SW-02 (5')						
Surrogate (Extracted Internal Standard)		%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)		72	Q	88		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)		76		94		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)		83		93		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)		78		86		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)		83		94		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)		84		82		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)		103		120		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)		86		80		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)		84		83		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)		69	Q	71	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)		118		128		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)		56		58		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)		72		67		61-155
N-Deuteroethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)		85		82		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDCA)		81		74		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)		91		85		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)		56		67		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)		71		81		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)		119		115		50-150

Lab Duplicate Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1771537-6 QC Sample: L2320723-02 Client ID: SW-02 (5')						
Perfluoroctanesulfonamide (FOSA)	ND	ND	ng/g	NC		30
N-Methyl Perfluoroctane Sulfonamide (NMeFOSA)	ND	ND	ng/g	NC		30
N-Ethyl Perfluoroctane Sulfonamide (NEtFOSA)	ND	ND	ng/g	NC		30
N-Methyl Perfluoroctanesulfonamido Ethanol (NMFOSE)	ND	ND	ng/g	NC		30
N-Ethyl Perfluoroctanesulfonamido Ethanol (NEtFOSE)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61		60		5-117
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	61		64		10-146
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	76		87		10-145
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)	53		57		10-146
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)	75		90		10-129

PCBS



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-01
 Client ID: SW-01 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:00
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/22/23 12:53
 Analyst: MEO
 Percent Solids: 73%

Extraction Method: EPA 3546
 Extraction Date: 04/21/23 18:58
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/22/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	66.8	5.93	1	A
Aroclor 1221	ND		ug/kg	66.8	6.69	1	A
Aroclor 1232	ND		ug/kg	66.8	14.2	1	A
Aroclor 1242	ND		ug/kg	66.8	9.00	1	A
Aroclor 1248	ND		ug/kg	66.8	10.0	1	A
Aroclor 1254	ND		ug/kg	66.8	7.30	1	A
Aroclor 1260	22.4	J	ug/kg	66.8	12.3	1	A
Aroclor 1262	ND		ug/kg	66.8	8.48	1	A
Aroclor 1268	ND		ug/kg	66.8	6.92	1	A
PCBs, Total	22.4	J	ug/kg	66.8	5.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-02
 Client ID: SW-02 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:05
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/22/23 12:59
 Analyst: MEO
 Percent Solids: 78%

Extraction Method: EPA 3546
 Extraction Date: 04/21/23 18:58
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/22/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	60.4	5.36	1	A
Aroclor 1221	ND		ug/kg	60.4	6.05	1	A
Aroclor 1232	ND		ug/kg	60.4	12.8	1	A
Aroclor 1242	ND		ug/kg	60.4	8.14	1	A
Aroclor 1248	ND		ug/kg	60.4	9.06	1	A
Aroclor 1254	ND		ug/kg	60.4	6.61	1	A
Aroclor 1260	ND		ug/kg	60.4	11.2	1	A
Aroclor 1262	ND		ug/kg	60.4	7.67	1	A
Aroclor 1268	ND		ug/kg	60.4	6.26	1	A
PCBs, Total	ND		ug/kg	60.4	5.36	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-03
 Client ID: SW-03 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:10
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/22/23 13:06
 Analyst: MEO
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 04/21/23 18:58
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/22/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	57.6	5.12	1	A
Aroclor 1221	ND		ug/kg	57.6	5.78	1	A
Aroclor 1232	ND		ug/kg	57.6	12.2	1	A
Aroclor 1242	ND		ug/kg	57.6	7.77	1	A
Aroclor 1248	ND		ug/kg	57.6	8.65	1	A
Aroclor 1254	ND		ug/kg	57.6	6.31	1	A
Aroclor 1260	27.6	J	ug/kg	57.6	10.6	1	B
Aroclor 1262	ND		ug/kg	57.6	7.32	1	A
Aroclor 1268	ND		ug/kg	57.6	5.97	1	A
PCBs, Total	27.6	J	ug/kg	57.6	5.12	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-04
 Client ID: SW-04 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:15
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/22/23 13:13
 Analyst: MEO
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 04/21/23 18:58
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/22/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	57.8	5.13	1	A
Aroclor 1221	ND		ug/kg	57.8	5.79	1	A
Aroclor 1232	ND		ug/kg	57.8	12.2	1	A
Aroclor 1242	ND		ug/kg	57.8	7.78	1	A
Aroclor 1248	ND		ug/kg	57.8	8.66	1	A
Aroclor 1254	ND		ug/kg	57.8	6.32	1	A
Aroclor 1260	37.3	J	ug/kg	57.8	10.7	1	A
Aroclor 1262	ND		ug/kg	57.8	7.33	1	A
Aroclor 1268	13.0	J	ug/kg	57.8	5.98	1	A
PCBs, Total	50.3	J	ug/kg	57.8	5.13	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-05
Client ID: SW-05 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:40
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/22/23 13:20
Analyst: MEO
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	53.9	4.79	1	A
Aroclor 1221	ND		ug/kg	53.9	5.40	1	A
Aroclor 1232	ND		ug/kg	53.9	11.4	1	A
Aroclor 1242	ND		ug/kg	53.9	7.27	1	A
Aroclor 1248	ND		ug/kg	53.9	8.09	1	A
Aroclor 1254	ND		ug/kg	53.9	5.90	1	A
Aroclor 1260	92.8		ug/kg	53.9	9.97	1	A
Aroclor 1262	ND		ug/kg	53.9	6.85	1	A
Aroclor 1268	ND		ug/kg	53.9	5.59	1	A
PCBs, Total	92.8		ug/kg	53.9	4.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-06
Client ID: SW-06 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:45
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/22/23 13:27
Analyst: MEO
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	60.3	5.35	1	A
Aroclor 1221	ND		ug/kg	60.3	6.04	1	A
Aroclor 1232	ND		ug/kg	60.3	12.8	1	A
Aroclor 1242	ND		ug/kg	60.3	8.13	1	A
Aroclor 1248	ND		ug/kg	60.3	9.04	1	A
Aroclor 1254	ND		ug/kg	60.3	6.60	1	A
Aroclor 1260	51.0	J	ug/kg	60.3	11.1	1	A
Aroclor 1262	ND		ug/kg	60.3	7.66	1	A
Aroclor 1268	ND		ug/kg	60.3	6.25	1	A
PCBs, Total	51.0	J	ug/kg	60.3	5.35	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-07
Client ID: SW-07 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:50
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/22/23 13:34
Analyst: MEO
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	59.4	5.28	1	A
Aroclor 1221	ND		ug/kg	59.4	5.95	1	A
Aroclor 1232	ND		ug/kg	59.4	12.6	1	A
Aroclor 1242	ND		ug/kg	59.4	8.01	1	A
Aroclor 1248	ND		ug/kg	59.4	8.91	1	A
Aroclor 1254	ND		ug/kg	59.4	6.50	1	A
Aroclor 1260	27.7	J	ug/kg	59.4	11.0	1	A
Aroclor 1262	ND		ug/kg	59.4	7.55	1	A
Aroclor 1268	ND		ug/kg	59.4	6.16	1	A
PCBs, Total	27.7	J	ug/kg	59.4	5.28	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-08
 Client ID: SW-08 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:55
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/22/23 13:41
 Analyst: MEO
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 04/21/23 18:58
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/22/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	58.8	5.22	1	A
Aroclor 1221	ND		ug/kg	58.8	5.89	1	A
Aroclor 1232	ND		ug/kg	58.8	12.5	1	A
Aroclor 1242	ND		ug/kg	58.8	7.92	1	A
Aroclor 1248	ND		ug/kg	58.8	8.82	1	A
Aroclor 1254	ND		ug/kg	58.8	6.43	1	A
Aroclor 1260	59.3		ug/kg	58.8	10.9	1	B
Aroclor 1262	ND		ug/kg	58.8	7.47	1	A
Aroclor 1268	ND		ug/kg	58.8	6.09	1	A
PCBs, Total	59.3		ug/kg	58.8	5.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-09
Client ID: ST-01 (6')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:20
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/22/23 13:47
Analyst: MEO
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.8	4.95	1	A
Aroclor 1221	ND		ug/kg	55.8	5.59	1	A
Aroclor 1232	ND		ug/kg	55.8	11.8	1	A
Aroclor 1242	ND		ug/kg	55.8	7.52	1	A
Aroclor 1248	ND		ug/kg	55.8	8.36	1	A
Aroclor 1254	ND		ug/kg	55.8	6.10	1	A
Aroclor 1260	84.7		ug/kg	55.8	10.3	1	B
Aroclor 1262	ND		ug/kg	55.8	7.08	1	A
Aroclor 1268	ND		ug/kg	55.8	5.78	1	A
PCBs, Total	84.7		ug/kg	55.8	4.95	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-10
 Client ID: ST-02 (6')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 14:00
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/22/23 13:54
 Analyst: MEO
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 04/21/23 18:58
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/22/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.0	4.88	1	A
Aroclor 1221	ND		ug/kg	55.0	5.51	1	A
Aroclor 1232	ND		ug/kg	55.0	11.6	1	A
Aroclor 1242	ND		ug/kg	55.0	7.41	1	A
Aroclor 1248	ND		ug/kg	55.0	8.25	1	A
Aroclor 1254	ND		ug/kg	55.0	6.02	1	A
Aroclor 1260	30.5	J	ug/kg	55.0	10.2	1	A
Aroclor 1262	ND		ug/kg	55.0	6.98	1	A
Aroclor 1268	ND		ug/kg	55.0	5.70	1	A
PCBs, Total	30.5	J	ug/kg	55.0	4.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/22/23 12:05
Analyst: ER

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s):	01-10			Batch:	WG1769722-1	
Aroclor 1016	ND		ug/kg	46.9	4.17	A
Aroclor 1221	ND		ug/kg	46.9	4.70	A
Aroclor 1232	ND		ug/kg	46.9	9.95	A
Aroclor 1242	ND		ug/kg	46.9	6.33	A
Aroclor 1248	ND		ug/kg	46.9	7.04	A
Aroclor 1254	ND		ug/kg	46.9	5.14	A
Aroclor 1260	ND		ug/kg	46.9	8.68	A
Aroclor 1262	ND		ug/kg	46.9	5.96	A
Aroclor 1268	ND		ug/kg	46.9	4.86	A
PCBs, Total	ND		ug/kg	46.9	4.17	A

Surrogate	%Recovery	Acceptance		
		Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	102		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	101		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>	<i>Column</i>
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1769722-2 WG1769722-3									
Aroclor 1016	86		84		40-140	2		50	A
Aroclor 1260	83		81		40-140	2		50	A

Surrogate	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	96		92		30-150	A
Decachlorobiphenyl	88		83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		91		30-150	B
Decachlorobiphenyl	84		75		30-150	B

PESTICIDES

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-01
Client ID: SW-01 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:00
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/23/23 15:41
Analyst: MMG
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:23
Cleanup Method: EPA 3620B
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.17	0.426	1	A
Lindane	ND		ug/kg	0.906	0.405	1	A
Alpha-BHC	ND		ug/kg	0.906	0.257	1	A
Beta-BHC	ND		ug/kg	2.17	0.824	1	A
Heptachlor	ND		ug/kg	1.09	0.487	1	A
Aldrin	ND		ug/kg	2.17	0.765	1	A
Heptachlor epoxide	ND		ug/kg	4.07	1.22	1	A
Endrin	ND		ug/kg	0.906	0.371	1	A
Endrin aldehyde	ND		ug/kg	2.72	0.951	1	A
Endrin ketone	ND		ug/kg	2.17	0.560	1	A
Dieldrin	ND		ug/kg	1.36	0.679	1	A
4,4'-DDE	ND		ug/kg	2.17	0.502	1	A
4,4'-DDD	ND		ug/kg	2.17	0.775	1	A
4,4'-DDT	ND		ug/kg	2.17	1.75	1	A
Endosulfan I	ND		ug/kg	2.17	0.513	1	A
Endosulfan II	ND		ug/kg	2.17	0.726	1	A
Endosulfan sulfate	ND		ug/kg	0.906	0.431	1	A
Methoxychlor	ND		ug/kg	4.07	1.27	1	A
Toxaphene	ND		ug/kg	40.7	11.4	1	A
cis-Chlordane	ND		ug/kg	2.72	0.757	1	A
trans-Chlordane	ND		ug/kg	2.72	0.717	1	A
Chlordane	ND		ug/kg	18.1	7.20	1	A

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-01	Date Collected:	04/18/23 13:00
Client ID:	SW-01 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	113		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	120		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-02
Client ID: SW-02 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:05
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/23/23 15:53
Analyst: MMG
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:23
Cleanup Method: EPA 3620B
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.97	0.385	1	A
Lindane	ND		ug/kg	0.819	0.366	1	A
Alpha-BHC	ND		ug/kg	0.819	0.233	1	A
Beta-BHC	ND		ug/kg	1.97	0.745	1	A
Heptachlor	ND		ug/kg	0.983	0.441	1	A
Aldrin	ND		ug/kg	1.97	0.692	1	A
Heptachlor epoxide	ND		ug/kg	3.69	1.10	1	A
Endrin	ND		ug/kg	0.819	0.336	1	A
Endrin aldehyde	ND		ug/kg	2.46	0.860	1	A
Endrin ketone	ND		ug/kg	1.97	0.506	1	A
Dieldrin	ND		ug/kg	1.23	0.614	1	A
4,4'-DDE	ND		ug/kg	1.97	0.455	1	A
4,4'-DDD	ND		ug/kg	1.97	0.701	1	A
4,4'-DDT	ND		ug/kg	1.97	1.58	1	A
Endosulfan I	ND		ug/kg	1.97	0.464	1	A
Endosulfan II	ND		ug/kg	1.97	0.657	1	A
Endosulfan sulfate	ND		ug/kg	0.819	0.390	1	A
Methoxychlor	ND		ug/kg	3.69	1.15	1	A
Toxaphene	ND		ug/kg	36.9	10.3	1	A
cis-Chlordane	ND		ug/kg	2.46	0.685	1	A
trans-Chlordane	ND		ug/kg	2.46	0.649	1	A
Chlordane	ND		ug/kg	16.4	6.51	1	A

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-02	Date Collected:	04/18/23 13:05
Client ID:	SW-02 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	126		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	115		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-03
Client ID: SW-03 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:10
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/23/23 16:05
Analyst: MMG
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:23
Cleanup Method: EPA 3620B
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.368	1	A
Lindane	ND		ug/kg	0.783	0.350	1	A
Alpha-BHC	ND		ug/kg	0.783	0.222	1	A
Beta-BHC	ND		ug/kg	1.88	0.713	1	A
Heptachlor	ND		ug/kg	0.940	0.421	1	A
Aldrin	ND		ug/kg	1.88	0.662	1	A
Heptachlor epoxide	ND		ug/kg	3.52	1.06	1	A
Endrin	ND		ug/kg	0.783	0.321	1	A
Endrin aldehyde	ND		ug/kg	2.35	0.822	1	A
Endrin ketone	ND		ug/kg	1.88	0.484	1	A
Dieldrin	ND		ug/kg	1.18	0.588	1	A
4,4'-DDE	ND		ug/kg	1.88	0.435	1	A
4,4'-DDD	ND		ug/kg	1.88	0.670	1	A
4,4'-DDT	ND		ug/kg	1.88	1.51	1	A
Endosulfan I	ND		ug/kg	1.88	0.444	1	A
Endosulfan II	ND		ug/kg	1.88	0.628	1	A
Endosulfan sulfate	ND		ug/kg	0.783	0.373	1	A
Methoxychlor	ND		ug/kg	3.52	1.10	1	A
Toxaphene	ND		ug/kg	35.2	9.87	1	A
cis-Chlordane	ND		ug/kg	2.35	0.655	1	A
trans-Chlordane	ND		ug/kg	2.35	0.620	1	A
Chlordane	ND		ug/kg	15.7	6.23	1	A

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-03	Date Collected:	04/18/23 13:10
Client ID:	SW-03 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	143		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	119		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-04
Client ID: SW-04 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:15
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/23/23 16:16
Analyst: MMG
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:23
Cleanup Method: EPA 3620B
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.84	0.360	1	A
Lindane	ND		ug/kg	0.765	0.342	1	A
Alpha-BHC	ND		ug/kg	0.765	0.217	1	A
Beta-BHC	ND		ug/kg	1.84	0.696	1	A
Heptachlor	ND		ug/kg	0.918	0.412	1	A
Aldrin	ND		ug/kg	1.84	0.646	1	A
Heptachlor epoxide	ND		ug/kg	3.44	1.03	1	A
Endrin	ND		ug/kg	0.765	0.314	1	A
Endrin aldehyde	ND		ug/kg	2.30	0.803	1	A
Endrin ketone	ND		ug/kg	1.84	0.473	1	A
Dieldrin	ND		ug/kg	1.15	0.574	1	A
4,4'-DDE	ND		ug/kg	1.84	0.425	1	A
4,4'-DDD	ND		ug/kg	1.84	0.655	1	A
4,4'-DDT	ND		ug/kg	1.84	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.434	1	A
Endosulfan II	ND		ug/kg	1.84	0.614	1	A
Endosulfan sulfate	ND		ug/kg	0.765	0.364	1	A
Methoxychlor	ND		ug/kg	3.44	1.07	1	A
Toxaphene	ND		ug/kg	34.4	9.64	1	A
cis-Chlordane	ND		ug/kg	2.30	0.640	1	A
trans-Chlordane	ND		ug/kg	2.30	0.606	1	A
Chlordane	ND		ug/kg	15.3	6.08	1	A

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-04	Date Collected:	04/18/23 13:15
Client ID:	SW-04 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	132		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	110		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-05
Client ID: SW-05 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:40
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/23/23 16:28
Analyst: MMG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:23
Cleanup Method: EPA 3620B
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND	ug/kg	1.78	0.348	1	A	
Lindane	ND	ug/kg	0.740	0.331	1	A	
Alpha-BHC	ND	ug/kg	0.740	0.210	1	A	
Beta-BHC	ND	ug/kg	1.78	0.674	1	A	
Heptachlor	ND	ug/kg	0.888	0.398	1	A	
Aldrin	ND	ug/kg	1.78	0.626	1	A	
Heptachlor epoxide	ND	ug/kg	3.33	0.999	1	A	
Endrin	ND	ug/kg	0.740	0.304	1	A	
Endrin aldehyde	ND	ug/kg	2.22	0.777	1	A	
Endrin ketone	ND	ug/kg	1.78	0.458	1	A	
Dieldrin	ND	ug/kg	1.11	0.555	1	A	
4,4'-DDE	ND	ug/kg	1.78	0.411	1	A	
4,4'-DDD	ND	ug/kg	1.78	0.634	1	A	
4,4'-DDT	ND	ug/kg	1.78	1.43	1	A	
Endosulfan I	ND	ug/kg	1.78	0.420	1	A	
Endosulfan II	ND	ug/kg	1.78	0.594	1	A	
Endosulfan sulfate	ND	ug/kg	0.740	0.352	1	A	
Methoxychlor	ND	ug/kg	3.33	1.04	1	A	
Toxaphene	ND	ug/kg	33.3	9.33	1	A	
cis-Chlordane	ND	ug/kg	2.22	0.619	1	A	
trans-Chlordane	ND	ug/kg	2.22	0.586	1	A	
Chlordane	ND	ug/kg	14.8	5.88	1	A	

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-05	Date Collected:	04/18/23 13:40
Client ID:	SW-05 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	115		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-06
Client ID: SW-06 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:45
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/23/23 16:40
Analyst: MMG
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:23
Cleanup Method: EPA 3620B
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.369	1	A
Lindane	ND		ug/kg	0.785	0.351	1	A
Alpha-BHC	ND		ug/kg	0.785	0.223	1	A
Beta-BHC	ND		ug/kg	1.88	0.714	1	A
Heptachlor	ND		ug/kg	0.942	0.422	1	A
Aldrin	ND		ug/kg	1.88	0.663	1	A
Heptachlor epoxide	ND		ug/kg	3.53	1.06	1	A
Endrin	ND		ug/kg	0.785	0.322	1	A
Endrin aldehyde	ND		ug/kg	2.35	0.824	1	A
Endrin ketone	ND		ug/kg	1.88	0.485	1	A
Dieldrin	ND		ug/kg	1.18	0.589	1	A
4,4'-DDE	ND		ug/kg	1.88	0.436	1	A
4,4'-DDD	ND		ug/kg	1.88	0.672	1	A
4,4'-DDT	ND		ug/kg	1.88	1.51	1	A
Endosulfan I	ND		ug/kg	1.88	0.445	1	A
Endosulfan II	ND		ug/kg	1.88	0.629	1	A
Endosulfan sulfate	ND		ug/kg	0.785	0.374	1	A
Methoxychlor	ND		ug/kg	3.53	1.10	1	A
Toxaphene	ND		ug/kg	35.3	9.89	1	A
cis-Chlordane	ND		ug/kg	2.35	0.656	1	A
trans-Chlordane	ND		ug/kg	2.35	0.622	1	A
Chlordane	ND		ug/kg	15.7	6.24	1	A

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-06	Date Collected:	04/18/23 13:45
Client ID:	SW-06 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-07
Client ID: SW-07 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:50
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/23/23 16:52
Analyst: MMG
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:23
Cleanup Method: EPA 3620B
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.356	1	A
Lindane	ND		ug/kg	0.758	0.339	1	A
Alpha-BHC	ND		ug/kg	0.758	0.215	1	A
Beta-BHC	ND		ug/kg	1.82	0.690	1	A
Heptachlor	ND		ug/kg	0.910	0.408	1	A
Aldrin	ND		ug/kg	1.82	0.641	1	A
Heptachlor epoxide	ND		ug/kg	3.41	1.02	1	A
Endrin	ND		ug/kg	0.758	0.311	1	A
Endrin aldehyde	ND		ug/kg	2.28	0.796	1	A
Endrin ketone	ND		ug/kg	1.82	0.469	1	A
Dieldrin	ND		ug/kg	1.14	0.569	1	A
4,4'-DDE	ND		ug/kg	1.82	0.421	1	A
4,4'-DDD	ND		ug/kg	1.82	0.649	1	A
4,4'-DDT	ND		ug/kg	1.82	1.46	1	A
Endosulfan I	ND		ug/kg	1.82	0.430	1	A
Endosulfan II	ND		ug/kg	1.82	0.608	1	A
Endosulfan sulfate	ND		ug/kg	0.758	0.361	1	A
Methoxychlor	ND		ug/kg	3.41	1.06	1	A
Toxaphene	ND		ug/kg	34.1	9.56	1	A
cis-Chlordane	ND		ug/kg	2.28	0.634	1	A
trans-Chlordane	ND		ug/kg	2.28	0.601	1	A
Chlordane	ND		ug/kg	15.2	6.03	1	A

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-07	Date Collected:	04/18/23 13:50
Client ID:	SW-07 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	108		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	112		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-08
Client ID: SW-08 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:55
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/23/23 17:04
Analyst: MMG
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:23
Cleanup Method: EPA 3620B
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.93	0.377	1	A
Lindane	ND		ug/kg	0.803	0.359	1	A
Alpha-BHC	ND		ug/kg	0.803	0.228	1	A
Beta-BHC	ND		ug/kg	1.93	0.731	1	A
Heptachlor	ND		ug/kg	0.964	0.432	1	A
Aldrin	ND		ug/kg	1.93	0.679	1	A
Heptachlor epoxide	ND		ug/kg	3.61	1.08	1	A
Endrin	ND		ug/kg	0.803	0.329	1	A
Endrin aldehyde	ND		ug/kg	2.41	0.843	1	A
Endrin ketone	ND		ug/kg	1.93	0.496	1	A
Dieldrin	ND		ug/kg	1.20	0.602	1	A
4,4'-DDE	ND		ug/kg	1.93	0.446	1	A
4,4'-DDD	ND		ug/kg	1.93	0.688	1	A
4,4'-DDT	ND		ug/kg	1.93	1.55	1	A
Endosulfan I	ND		ug/kg	1.93	0.455	1	A
Endosulfan II	ND		ug/kg	1.93	0.644	1	A
Endosulfan sulfate	ND		ug/kg	0.803	0.382	1	A
Methoxychlor	ND		ug/kg	3.61	1.12	1	A
Toxaphene	ND		ug/kg	36.1	10.1	1	A
cis-Chlordane	ND		ug/kg	2.41	0.671	1	A
trans-Chlordane	ND		ug/kg	2.41	0.636	1	A
Chlordane	ND		ug/kg	16.1	6.38	1	A

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-08	Date Collected:	04/18/23 13:55
Client ID:	SW-08 (5')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	110		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-09
Client ID: ST-01 (6')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:20
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/23/23 17:16
Analyst: MMG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:23
Cleanup Method: EPA 3620B
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.90	0.372	1	A
Lindane	ND		ug/kg	0.791	0.354	1	A
Alpha-BHC	ND		ug/kg	0.791	0.225	1	A
Beta-BHC	ND		ug/kg	1.90	0.720	1	A
Heptachlor	ND		ug/kg	0.949	0.426	1	A
Aldrin	ND		ug/kg	1.90	0.668	1	A
Heptachlor epoxide	ND		ug/kg	3.56	1.07	1	A
Endrin	ND		ug/kg	0.791	0.324	1	A
Endrin aldehyde	ND		ug/kg	2.37	0.831	1	A
Endrin ketone	ND		ug/kg	1.90	0.489	1	A
Dieldrin	ND		ug/kg	1.19	0.593	1	A
4,4'-DDE	ND		ug/kg	1.90	0.439	1	A
4,4'-DDD	ND		ug/kg	1.90	0.677	1	A
4,4'-DDT	ND		ug/kg	1.90	1.53	1	A
Endosulfan I	ND		ug/kg	1.90	0.449	1	A
Endosulfan II	ND		ug/kg	1.90	0.634	1	A
Endosulfan sulfate	ND		ug/kg	0.791	0.377	1	A
Methoxychlor	ND		ug/kg	3.56	1.11	1	A
Toxaphene	ND		ug/kg	35.6	9.97	1	A
cis-Chlordane	ND		ug/kg	2.37	0.661	1	A
trans-Chlordane	ND		ug/kg	2.37	0.627	1	A
Chlordane	ND		ug/kg	15.8	6.29	1	A

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-09	Date Collected:	04/18/23 13:20
Client ID:	ST-01 (6')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	108		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	100		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-10
Client ID: ST-02 (6')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 14:00
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/23/23 17:28
Analyst: MMG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/21/23 18:23
Cleanup Method: EPA 3620B
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.348	1	A
Lindane	ND		ug/kg	0.740	0.331	1	A
Alpha-BHC	ND		ug/kg	0.740	0.210	1	A
Beta-BHC	ND		ug/kg	1.78	0.673	1	A
Heptachlor	ND		ug/kg	0.888	0.398	1	A
Aldrin	ND		ug/kg	1.78	0.625	1	A
Heptachlor epoxide	ND		ug/kg	3.33	0.998	1	A
Endrin	ND		ug/kg	0.740	0.303	1	A
Endrin aldehyde	ND		ug/kg	2.22	0.777	1	A
Endrin ketone	ND		ug/kg	1.78	0.457	1	A
Dieldrin	ND		ug/kg	1.11	0.555	1	A
4,4'-DDE	ND		ug/kg	1.78	0.410	1	A
4,4'-DDD	ND		ug/kg	1.78	0.633	1	A
4,4'-DDT	ND		ug/kg	1.78	1.43	1	A
Endosulfan I	ND		ug/kg	1.78	0.419	1	A
Endosulfan II	ND		ug/kg	1.78	0.593	1	A
Endosulfan sulfate	ND		ug/kg	0.740	0.352	1	A
Methoxychlor	ND		ug/kg	3.33	1.04	1	A
Toxaphene	ND		ug/kg	33.3	9.32	1	A
cis-Chlordane	ND		ug/kg	2.22	0.618	1	A
trans-Chlordane	ND		ug/kg	2.22	0.586	1	A
Chlordane	ND		ug/kg	14.8	5.88	1	A

Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID:	L2320723-10	Date Collected:	04/18/23 14:00
Client ID:	ST-02 (6')	Date Received:	04/18/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	121		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	111		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/23/23 10:20
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 04/21/23 13:47
Cleanup Method: EPA 3620B
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s):	01-10			Batch:	WG1769616-1	
Delta-BHC	ND		ug/kg	1.58	0.309	A
Lindane	ND		ug/kg	0.657	0.294	A
Alpha-BHC	ND		ug/kg	0.657	0.187	A
Beta-BHC	ND		ug/kg	1.58	0.598	A
Heptachlor	ND		ug/kg	0.789	0.354	A
Aldrin	ND		ug/kg	1.58	0.556	A
Heptachlor epoxide	ND		ug/kg	2.96	0.888	A
Endrin	ND		ug/kg	0.657	0.270	A
Endrin aldehyde	ND		ug/kg	1.97	0.690	A
Endrin ketone	ND		ug/kg	1.58	0.406	A
Dieldrin	ND		ug/kg	0.986	0.493	A
4,4'-DDE	ND		ug/kg	1.58	0.365	A
4,4'-DDD	ND		ug/kg	1.58	0.563	A
4,4'-DDT	ND		ug/kg	1.58	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.373	A
Endosulfan II	ND		ug/kg	1.58	0.527	A
Endosulfan sulfate	ND		ug/kg	0.657	0.313	A
Methoxychlor	ND		ug/kg	2.96	0.920	A
Toxaphene	ND		ug/kg	29.6	8.28	A
cis-Chlordane	ND		ug/kg	1.97	0.550	A
trans-Chlordane	ND		ug/kg	1.97	0.521	A
Chlordane	ND		ug/kg	13.1	5.23	A



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/23/23 10:20
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 04/21/23 13:47
Cleanup Method: EPA 3620B
Cleanup Date: 04/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s):	01-10			Batch:	WG1769616-1	

Surrogate	%Recovery	Acceptance Criteria			Column
		Qualifier	Criteria	Column	
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A	
Decachlorobiphenyl	107		30-150	A	
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B	
Decachlorobiphenyl	99		30-150	B	

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1769616-2 WG1769616-3									
Delta-BHC	81		79		30-150	3		30	A
Lindane	77		75		30-150	3		30	A
Alpha-BHC	81		79		30-150	3		30	A
Beta-BHC	91		81		30-150	12		30	A
Heptachlor	84		80		30-150	5		30	A
Aldrin	75		73		30-150	3		30	A
Heptachlor epoxide	66		63		30-150	5		30	A
Endrin	74		73		30-150	1		30	A
Endrin aldehyde	56		55		30-150	2		30	A
Endrin ketone	68		68		30-150	0		30	A
Dieldrin	78		77		30-150	1		30	A
4,4'-DDE	70		69		30-150	1		30	A
4,4'-DDD	79		78		30-150	1		30	A
4,4'-DDT	84		85		30-150	1		30	A
Endosulfan I	73		71		30-150	3		30	A
Endosulfan II	76		75		30-150	1		30	A
Endosulfan sulfate	49		48		30-150	2		30	A
Methoxychlor	92		91		30-150	1		30	A
cis-Chlordane	77		75		30-150	3		30	A
trans-Chlordane	93		91		30-150	2		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1769616-2 WG1769616-3								
Surrogate	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>			<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	68		67		30-150			A
Decachlorobiphenyl	105		104		30-150			A
2,4,5,6-Tetrachloro-m-xylene	72		71		30-150			B
Decachlorobiphenyl	94		94		30-150			B

METALS



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2320723

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-01
 Client ID: SW-01 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:00
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12600		mg/kg	10.5	2.83	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	5.24	0.398	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Arsenic, Total	4.50		mg/kg	1.05	0.218	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Barium, Total	94.2		mg/kg	1.05	0.182	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.628		mg/kg	0.524	0.035	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.415	J	mg/kg	1.05	0.103	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Calcium, Total	1710		mg/kg	10.5	3.67	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Chromium, Total	26.0		mg/kg	1.05	0.100	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Cobalt, Total	11.4		mg/kg	2.10	0.174	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Copper, Total	29.7		mg/kg	1.05	0.270	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Iron, Total	24600		mg/kg	5.24	0.946	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Lead, Total	37.7		mg/kg	5.24	0.281	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Magnesium, Total	4880		mg/kg	10.5	1.61	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Manganese, Total	597		mg/kg	1.05	0.166	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Mercury, Total	0.404		mg/kg	0.097	0.064	1	04/24/23 21:53	04/25/23 10:38	EPA 7471B	1,7471B	DMB
Nickel, Total	23.2		mg/kg	2.62	0.254	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Potassium, Total	2770		mg/kg	262	15.1	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Selenium, Total	0.275	J	mg/kg	2.10	0.270	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.524	0.296	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Sodium, Total	82.6	J	mg/kg	210	3.30	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Thallium, Total	1.10	J	mg/kg	2.10	0.330	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Vanadium, Total	33.5		mg/kg	1.05	0.213	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL
Zinc, Total	87.9		mg/kg	5.24	0.307	2	04/24/23 20:50	04/25/23 09:27	EPA 3050B	1,6010D	DHL



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2320723

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-02
 Client ID: SW-02 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:05
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	15200		mg/kg	9.99	2.70	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Antimony, Total	0.473	J	mg/kg	5.00	0.380	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Arsenic, Total	3.47		mg/kg	0.999	0.208	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Barium, Total	115		mg/kg	0.999	0.174	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.679		mg/kg	0.500	0.033	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.385	J	mg/kg	0.999	0.098	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Calcium, Total	1300		mg/kg	9.99	3.50	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Chromium, Total	32.2		mg/kg	0.999	0.096	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Cobalt, Total	11.4		mg/kg	2.00	0.166	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Copper, Total	25.0		mg/kg	0.999	0.258	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Iron, Total	27600		mg/kg	5.00	0.902	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Lead, Total	12.1		mg/kg	5.00	0.268	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Magnesium, Total	6170		mg/kg	9.99	1.54	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Manganese, Total	558		mg/kg	0.999	0.159	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.098	0.064	1	04/24/23 21:53	04/25/23 10:42	EPA 7471B	1,7471B	DMB
Nickel, Total	27.1		mg/kg	2.50	0.242	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Potassium, Total	4230		mg/kg	250	14.4	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	2.00	0.258	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.500	0.283	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Sodium, Total	89.5	J	mg/kg	200	3.15	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Thallium, Total	1.25	J	mg/kg	2.00	0.315	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Vanadium, Total	38.8		mg/kg	0.999	0.203	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL
Zinc, Total	67.0		mg/kg	5.00	0.293	2	04/24/23 20:50	04/25/23 09:30	EPA 3050B	1,6010D	DHL



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2320723

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-03
 Client ID: SW-03 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:10
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6970		mg/kg	9.52	2.57	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Antimony, Total	0.718	J	mg/kg	4.76	0.362	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Arsenic, Total	8.01		mg/kg	0.952	0.198	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Barium, Total	50.3		mg/kg	0.952	0.166	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.401	J	mg/kg	0.476	0.031	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.429	J	mg/kg	0.952	0.093	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Calcium, Total	4810		mg/kg	9.52	3.33	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Chromium, Total	13.2		mg/kg	0.952	0.091	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Cobalt, Total	7.24		mg/kg	1.90	0.158	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Copper, Total	23.6		mg/kg	0.952	0.246	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Iron, Total	20200		mg/kg	4.76	0.860	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Lead, Total	79.6		mg/kg	4.76	0.255	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Magnesium, Total	2180		mg/kg	9.52	1.47	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Manganese, Total	377		mg/kg	0.952	0.151	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Mercury, Total	0.603		mg/kg	0.081	0.053	1	04/24/23 21:53	04/25/23 10:45	EPA 7471B	1,7471B	DMB
Nickel, Total	12.0		mg/kg	2.38	0.230	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Potassium, Total	973		mg/kg	238	13.7	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Selenium, Total	0.268	J	mg/kg	1.90	0.246	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.476	0.270	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Sodium, Total	78.5	J	mg/kg	190	3.00	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Thallium, Total	0.485	J	mg/kg	1.90	0.300	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Vanadium, Total	18.4		mg/kg	0.952	0.193	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL
Zinc, Total	87.0		mg/kg	4.76	0.279	2	04/24/23 20:50	04/25/23 10:05	EPA 3050B	1,6010D	DHL



Project Name: NUHART EAST

Lab Number: L2320723

Project Number: 0201891

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-04
 Client ID: SW-04 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:15
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6820		mg/kg	9.66	2.61	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Antimony, Total	0.698	J	mg/kg	4.83	0.367	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Arsenic, Total	8.48		mg/kg	0.966	0.201	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Barium, Total	65.8		mg/kg	0.966	0.168	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.434	J	mg/kg	0.483	0.032	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.505	J	mg/kg	0.966	0.095	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Calcium, Total	6680		mg/kg	9.66	3.38	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Chromium, Total	14.7		mg/kg	0.966	0.093	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Cobalt, Total	9.65		mg/kg	1.93	0.160	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Copper, Total	20.3		mg/kg	0.966	0.249	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Iron, Total	21800		mg/kg	4.83	0.872	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Lead, Total	46.4		mg/kg	4.83	0.259	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Magnesium, Total	2280		mg/kg	9.66	1.49	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Manganese, Total	588		mg/kg	0.966	0.154	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Mercury, Total	0.329		mg/kg	0.084	0.055	1	04/24/23 21:53	04/25/23 10:55	EPA 7471B	1,7471B	DMB
Nickel, Total	15.0		mg/kg	2.41	0.234	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Potassium, Total	1060		mg/kg	241	13.9	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Selenium, Total	0.310	J	mg/kg	1.93	0.249	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.483	0.273	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Sodium, Total	119	J	mg/kg	193	3.04	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Thallium, Total	0.621	J	mg/kg	1.93	0.304	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Vanadium, Total	20.3		mg/kg	0.966	0.196	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL
Zinc, Total	96.0		mg/kg	4.83	0.283	2	04/24/23 20:50	04/25/23 10:02	EPA 3050B	1,6010D	DHL



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2320723

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-05
 Client ID: SW-05 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:40
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12400		mg/kg	8.95	2.42	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Antimony, Total	0.475	J	mg/kg	4.48	0.340	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Arsenic, Total	4.17		mg/kg	0.895	0.186	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Barium, Total	107		mg/kg	0.895	0.156	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.599		mg/kg	0.448	0.030	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.399	J	mg/kg	0.895	0.088	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Calcium, Total	1280		mg/kg	8.95	3.13	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Chromium, Total	27.2		mg/kg	0.895	0.086	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Cobalt, Total	11.4		mg/kg	1.79	0.149	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Copper, Total	32.9		mg/kg	0.895	0.231	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Iron, Total	24100		mg/kg	4.48	0.808	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Lead, Total	40.4		mg/kg	4.48	0.240	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Magnesium, Total	5080		mg/kg	8.95	1.38	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Manganese, Total	510		mg/kg	0.895	0.142	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Mercury, Total	0.277		mg/kg	0.084	0.055	1	04/24/23 21:53	04/25/23 10:58	EPA 7471B	1,7471B	DMB
Nickel, Total	22.9		mg/kg	2.24	0.217	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Potassium, Total	3250		mg/kg	224	12.9	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Selenium, Total	0.328	J	mg/kg	1.79	0.231	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.448	0.253	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Sodium, Total	73.2	J	mg/kg	179	2.82	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Thallium, Total	1.08	J	mg/kg	1.79	0.282	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Vanadium, Total	34.2		mg/kg	0.895	0.182	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL
Zinc, Total	91.9		mg/kg	4.48	0.262	2	04/24/23 20:50	04/25/23 10:09	EPA 3050B	1,6010D	DHL



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2320723

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-06
 Client ID: SW-06 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:45
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10200		mg/kg	9.21	2.48	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Antimony, Total	0.369	J	mg/kg	4.60	0.350	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Arsenic, Total	4.79		mg/kg	0.921	0.191	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Barium, Total	59.0		mg/kg	0.921	0.160	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.520		mg/kg	0.460	0.030	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.373	J	mg/kg	0.921	0.090	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Calcium, Total	4540		mg/kg	9.21	3.22	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Chromium, Total	22.0		mg/kg	0.921	0.088	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Cobalt, Total	8.24		mg/kg	1.84	0.153	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Copper, Total	20.2		mg/kg	0.921	0.238	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Iron, Total	20600		mg/kg	4.60	0.831	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Lead, Total	20.9		mg/kg	4.60	0.247	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Magnesium, Total	3940		mg/kg	9.21	1.42	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Manganese, Total	368		mg/kg	0.921	0.146	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Mercury, Total	0.358		mg/kg	0.085	0.055	1	04/24/23 21:53	04/25/23 11:01	EPA 7471B	1,7471B	DMB
Nickel, Total	17.2		mg/kg	2.30	0.223	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Potassium, Total	1620		mg/kg	230	13.2	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Selenium, Total	0.335	J	mg/kg	1.84	0.238	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.460	0.260	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Sodium, Total	96.0	J	mg/kg	184	2.90	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Thallium, Total	0.606	J	mg/kg	1.84	0.290	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Vanadium, Total	26.3		mg/kg	0.921	0.187	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL
Zinc, Total	74.5		mg/kg	4.60	0.270	2	04/24/23 20:50	04/25/23 10:12	EPA 3050B	1,6010D	DHL



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2320723

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-07
 Client ID: SW-07 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:50
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6870		mg/kg	9.54	2.58	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Antimony, Total	0.850	J	mg/kg	4.77	0.363	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Arsenic, Total	11.3		mg/kg	0.954	0.198	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Barium, Total	50.5		mg/kg	0.954	0.166	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.450	J	mg/kg	0.477	0.032	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.426	J	mg/kg	0.954	0.094	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Calcium, Total	2330		mg/kg	9.54	3.34	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Chromium, Total	14.4		mg/kg	0.954	0.092	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Cobalt, Total	8.65		mg/kg	1.91	0.158	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Copper, Total	20.0		mg/kg	0.954	0.246	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Iron, Total	25100		mg/kg	4.77	0.862	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Lead, Total	45.2		mg/kg	4.77	0.256	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Magnesium, Total	2170		mg/kg	9.54	1.47	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Manganese, Total	396		mg/kg	0.954	0.152	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Mercury, Total	0.324		mg/kg	0.088	0.057	1	04/24/23 21:53	04/25/23 11:05	EPA 7471B	1,7471B	DMB
Nickel, Total	13.2		mg/kg	2.39	0.231	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Potassium, Total	1020		mg/kg	239	13.7	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Selenium, Total	0.313	J	mg/kg	1.91	0.246	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.477	0.270	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Sodium, Total	59.6	J	mg/kg	191	3.01	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Thallium, Total	0.542	J	mg/kg	1.91	0.301	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Vanadium, Total	20.7		mg/kg	0.954	0.194	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL
Zinc, Total	75.8		mg/kg	4.77	0.280	2	04/24/23 20:50	04/25/23 10:15	EPA 3050B	1,6010D	DHL



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2320723

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-08
 Client ID: SW-08 (5')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:55
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8560		mg/kg	9.39	2.54	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.70	0.357	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Arsenic, Total	5.74		mg/kg	0.939	0.195	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Barium, Total	55.4		mg/kg	0.939	0.163	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.447	J	mg/kg	0.470	0.031	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.320	J	mg/kg	0.939	0.092	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Calcium, Total	8020		mg/kg	9.39	3.29	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Chromium, Total	15.2		mg/kg	0.939	0.090	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Cobalt, Total	7.48		mg/kg	1.88	0.156	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Copper, Total	20.5		mg/kg	0.939	0.242	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Iron, Total	19300		mg/kg	4.70	0.848	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Lead, Total	39.5		mg/kg	4.70	0.252	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Magnesium, Total	3260		mg/kg	9.39	1.45	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Manganese, Total	448		mg/kg	0.939	0.149	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Mercury, Total	0.305		mg/kg	0.079	0.051	1	04/24/23 21:53	04/25/23 11:08	EPA 7471B	1,7471B	DMB
Nickel, Total	14.3		mg/kg	2.35	0.227	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Potassium, Total	1500		mg/kg	235	13.5	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Selenium, Total	0.353	J	mg/kg	1.88	0.242	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.470	0.266	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Sodium, Total	168	J	mg/kg	188	2.96	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Thallium, Total	0.561	J	mg/kg	1.88	0.296	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Vanadium, Total	23.1		mg/kg	0.939	0.191	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL
Zinc, Total	67.5		mg/kg	4.70	0.275	2	04/24/23 20:50	04/25/23 10:51	EPA 3050B	1,6010D	DHL



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2320723

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-09
 Client ID: ST-01 (6')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:20
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7730		mg/kg	9.28	2.51	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Antimony, Total	0.972	J	mg/kg	4.64	0.353	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Arsenic, Total	6.44		mg/kg	0.928	0.193	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Barium, Total	64.7		mg/kg	0.928	0.162	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.407	J	mg/kg	0.464	0.031	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.412	J	mg/kg	0.928	0.091	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Calcium, Total	8440		mg/kg	9.28	3.25	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Chromium, Total	16.5		mg/kg	0.928	0.089	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Cobalt, Total	7.59		mg/kg	1.86	0.154	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Copper, Total	21.8		mg/kg	0.928	0.240	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Iron, Total	19400		mg/kg	4.64	0.838	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Lead, Total	88.2		mg/kg	4.64	0.249	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Magnesium, Total	2910		mg/kg	9.28	1.43	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Manganese, Total	392		mg/kg	0.928	0.148	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Mercury, Total	1.10		mg/kg	0.076	0.050	1	04/24/23 21:53	04/25/23 11:11	EPA 7471B	1,7471B	DMB
Nickel, Total	14.7		mg/kg	2.32	0.225	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Potassium, Total	1290		mg/kg	232	13.4	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Selenium, Total	0.326	J	mg/kg	1.86	0.240	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.464	0.263	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Sodium, Total	109	J	mg/kg	186	2.92	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Thallium, Total	0.599	J	mg/kg	1.86	0.292	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Vanadium, Total	21.5		mg/kg	0.928	0.188	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL
Zinc, Total	82.9		mg/kg	4.64	0.272	2	04/24/23 20:50	04/25/23 10:54	EPA 3050B	1,6010D	DHL



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2320723

Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-10
 Client ID: ST-02 (6')
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 14:00
 Date Received: 04/18/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7610		mg/kg	9.31	2.51	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Antimony, Total	0.573	J	mg/kg	4.66	0.354	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Arsenic, Total	5.97		mg/kg	0.931	0.194	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Barium, Total	55.4		mg/kg	0.931	0.162	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.426	J	mg/kg	0.466	0.031	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.452	J	mg/kg	0.931	0.091	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Calcium, Total	5380		mg/kg	9.31	3.26	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Chromium, Total	17.8		mg/kg	0.931	0.089	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Cobalt, Total	7.50		mg/kg	1.86	0.154	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Copper, Total	21.4		mg/kg	0.931	0.240	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Iron, Total	19400		mg/kg	4.66	0.841	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Lead, Total	55.2		mg/kg	4.66	0.250	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Magnesium, Total	2850		mg/kg	9.31	1.43	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Manganese, Total	367		mg/kg	0.931	0.148	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Mercury, Total	1.60		mg/kg	0.083	0.054	1	04/24/23 21:53	04/25/23 11:15	EPA 7471B	1,7471B	DMB
Nickel, Total	14.7		mg/kg	2.33	0.225	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Potassium, Total	1370		mg/kg	233	13.4	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Selenium, Total	0.314	J	mg/kg	1.86	0.240	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.466	0.264	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Sodium, Total	96.9	J	mg/kg	186	2.93	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Thallium, Total	0.535	J	mg/kg	1.86	0.293	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Vanadium, Total	23.3		mg/kg	0.931	0.189	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL
Zinc, Total	90.2		mg/kg	4.66	0.273	2	04/24/23 20:50	04/25/23 10:57	EPA 3050B	1,6010D	DHL



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1768586-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Antimony, Total	ND	mg/kg	2.00	0.152	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Barium, Total	ND	mg/kg	0.400	0.070	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Calcium, Total	ND	mg/kg	4.00	1.40	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Chromium, Total	ND	mg/kg	0.400	0.038	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Copper, Total	ND	mg/kg	0.400	0.103	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Iron, Total	ND	mg/kg	2.00	0.361	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Lead, Total	ND	mg/kg	2.00	0.107	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Manganese, Total	ND	mg/kg	0.400	0.064	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Nickel, Total	ND	mg/kg	1.00	0.097	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Potassium, Total	ND	mg/kg	100	5.76	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Selenium, Total	ND	mg/kg	0.800	0.103	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Silver, Total	ND	mg/kg	0.200	0.113	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Sodium, Total	3.79	J	mg/kg	80.0	1.26	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL
Thallium, Total	ND	mg/kg	0.800	0.126	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	
Zinc, Total	ND	mg/kg	2.00	0.117	1	04/24/23 20:50	04/25/23 09:21	1,6010D	DHL	

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1768591-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	04/24/23 21:53	04/25/23 09:59	1,7471B	DMB



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1768586-2 SRM Lot Number: D116-540								
Aluminum, Total	84	-	-	-	45-155	-	-	-
Antimony, Total	175	-	-	-	2-205	-	-	-
Arsenic, Total	100	-	-	-	82-119	-	-	-
Barium, Total	92	-	-	-	82-118	-	-	-
Beryllium, Total	98	-	-	-	82-118	-	-	-
Cadmium, Total	98	-	-	-	82-118	-	-	-
Calcium, Total	93	-	-	-	81-119	-	-	-
Chromium, Total	95	-	-	-	81-118	-	-	-
Cobalt, Total	96	-	-	-	83-117	-	-	-
Copper, Total	101	-	-	-	83-117	-	-	-
Iron, Total	103	-	-	-	58-142	-	-	-
Lead, Total	99	-	-	-	83-117	-	-	-
Magnesium, Total	96	-	-	-	75-125	-	-	-
Manganese, Total	96	-	-	-	82-118	-	-	-
Nickel, Total	98	-	-	-	82-118	-	-	-
Potassium, Total	94	-	-	-	68-131	-	-	-
Selenium, Total	103	-	-	-	78-122	-	-	-
Silver, Total	104	-	-	-	79-121	-	-	-
Sodium, Total	103	-	-	-	71-130	-	-	-
Thallium, Total	104	-	-	-	80-120	-	-	-
Vanadium, Total	97	-	-	-	78-122	-	-	-

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1768586-2 SRM Lot Number: D116-540					
Zinc, Total	100	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1768591-2 SRM Lot Number: D116-540					
Mercury, Total	91	-	58-142	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1768586-3 WG1768586-4 QC Sample: L2320735-01 Client ID: MS Sample												
Aluminum, Total	2850	190	3220	195	Q	3760	477	Q	75-125	15		20
Antimony, Total	0.354J	47.4	47.7	101		47.8	100		75-125	0		20
Arsenic, Total	7.38	11.4	26.4	167	Q	19.8	108		75-125	29	Q	20
Barium, Total	177	190	368	101		366	99		75-125	1		20
Beryllium, Total	0.130J	4.74	4.86	102		4.98	104		75-125	2		20
Cadmium, Total	0.281J	5.02	4.73	94		4.86	96		75-125	3		20
Calcium, Total	57500	948	61300	401	Q	49200	0	Q	75-125	22	Q	20
Chromium, Total	7.53	19	28.3	110		30.1	118		75-125	6		20
Cobalt, Total	3.23	47.4	45.3	89		46.9	92		75-125	3		20
Copper, Total	24.6	23.7	44.2	83		39.0	60	Q	75-125	13		20
Iron, Total	7280	94.8	8050	812	Q	12200	5160	Q	75-125	41	Q	20
Lead, Total	3460	50.2	3310	0	Q	2700	0	Q	75-125	20		20
Magnesium, Total	2690	948	3810	118		2840	16	Q	75-125	29	Q	20
Manganese, Total	171	47.4	258	184	Q	299	268	Q	75-125	15		20
Nickel, Total	5.82	47.4	48.3	90		48.2	89		75-125	0		20
Potassium, Total	555	948	1650	116		1510	100		75-125	9		20
Selenium, Total	0.326J	11.4	13.0	114		12.9	113		75-125	1		20
Silver, Total	0.350	4.74	5.01	98		4.99	97		75-125	0		20
Sodium, Total	220	948	1230	106		1200	103		75-125	2		20
Thallium, Total	0.229J	11.4	11.3	99		11.6	101		75-125	3		20
Vanadium, Total	11.6	47.4	56.8	95		60.9	103		75-125	7		20

Matrix Spike Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1768586-3 WG1768586-4 QC Sample: L2320735-01 Client ID: MS Sample									
Zinc, Total	240	47.4	294	114	275	73	Q 75-125	7	20

Matrix Spike Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1768586-7 WG1768586-8 QC Sample: L2320735-06 Client ID: MS Sample									
Aluminum, Total	5060	159	5720	415	Q	5690	382	Q	75-125
Antimony, Total	ND	39.8	40.2	101		39.6	96		75-125
Arsenic, Total	1.25	9.54	10.9	101		11.1	100		75-125
Barium, Total	28.8	159	195	104		200	104		75-125
Beryllium, Total	0.271J	3.98	4.19	105		4.33	105		75-125
Cadmium, Total	0.226J	4.22	4.16	99		4.32	99		75-125
Calcium, Total	548	795	1500	120		1450	109		75-125
Chromium, Total	8.42	15.9	26.4	113		27.6	116		75-125
Cobalt, Total	4.90	39.8	44.7	100		45.3	98		75-125
Copper, Total	8.17	19.9	30.0	110		30.4	108		75-125
Iron, Total	10300	79.5	11600	1630	Q	11200	1090	Q	75-125
Lead, Total	2.97J	42.2	45.2	107		46.2	106		75-125
Magnesium, Total	1520	795	2490	122		2470	115		75-125
Manganese, Total	824	39.8	995	430	Q	953	313	Q	75-125
Nickel, Total	10.8	39.8	51.1	101		51.6	99		75-125
Potassium, Total	440	795	1320	111		1360	112		75-125
Selenium, Total	ND	9.54	9.92	104		10.3	104		75-125
Silver, Total	ND	3.98	3.68	92		3.79	92		75-125
Sodium, Total	143J	795	977	123		1010	122		75-125
Thallium, Total	0.569J	9.54	10.2	107		10.4	105		75-125
Vanadium, Total	15.0	39.8	56.4	104		56.6	101		75-125

Matrix Spike Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1768586-7 WG1768586-8 QC Sample: L2320735-06 Client ID: MS Sample									
Zinc, Total	14.6	39.8	54.2	100	53.4	94	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1768591-3 WG1768591-4 QC Sample: L2320735-01 Client ID: MS Sample									
Mercury, Total	0.190	1.6	1.85	104	2.07	118	80-120	11	20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1768591-5 WG1768591-6 QC Sample: L2320735-06 Client ID: MS Sample									
Mercury, Total	ND	1.33	1.32	99	1.52	101	80-120	14	20

Project Name: NUHART EAST
Project Number: 0201891

**Lab Serial Dilution
Analysis
Batch Quality Control**

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1768586-10 QC Sample: L2320735-06 Client ID: DUP Sample						
Aluminum, Total	5060	5380	mg/kg	6		20
Barium, Total	28.8	29.4	mg/kg	2		20
Calcium, Total	548	566	mg/kg	3		20
Iron, Total	10300	10900	mg/kg	6		20
Magnesium, Total	1520	1690	mg/kg	11		20
Manganese, Total	824	884	mg/kg	7		20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1768586-6 QC Sample: L2320735-01 Client ID: DUP Sample						
Lead, Total	3460	3580	mg/kg	3		20

INORGANICS & MISCELLANEOUS



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-01
Client ID: SW-01 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:00
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.7	%	0.100	NA	1	-	04/19/23 11:42	121,2540G	ROI	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-02
Client ID: SW-02 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:05
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.7	%	0.100	NA	1	-	04/19/23 11:42	121,2540G	ROI	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-03
Client ID: SW-03 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:10
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0	%	0.100	NA	1	-	04/19/23 11:42	121,2540G	ROI	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-04
Client ID: SW-04 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:15
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3	%	0.100	NA	1	-	04/19/23 11:42	121,2540G	ROI	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-05
Client ID: SW-05 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:40
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2	%	0.100	NA	1	-	04/19/23 11:42	121,2540G	ROI	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-06
Client ID: SW-06 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:45
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.1		%	0.100	NA	1	-	04/19/23 11:42	121,2540G	ROI

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-07
Client ID: SW-07 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:50
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5	%	0.100	NA	1	-	04/19/23 11:42	121,2540G	ROI	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-08
Client ID: SW-08 (5')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:55
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4	%	0.100	NA	1	-	04/19/23 11:42	121,2540G	ROI	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-09
Client ID: ST-01 (6')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 13:20
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2	%	0.100	NA	1	-	04/19/23 11:42	121,2540G	ROI	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

SAMPLE RESULTS

Lab ID: L2320723-10
Client ID: ST-02 (6')
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/18/23 14:00
Date Received: 04/18/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.3	%	0.100	NA	1	-	04/19/23 12:07	121,2540G	ROI	

Lab Duplicate Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1768492-1 QC Sample: L2320581-03 Client ID: DUP Sample						
Solids, Total	86.1	86.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1768495-1 QC Sample: L2320735-06 Client ID: DUP Sample						
Solids, Total	94.4	94.2	%	0		20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2320723-01A	Vial MeOH preserved	A	NA	2.7	Y	Absent			NYTCL-8260HLW(14)
L2320723-01B	Vial water preserved	A	NA	2.7	Y	Absent	19-APR-23 08:37		NYTCL-8260HLW(14)
L2320723-01C	Vial water preserved	A	NA	2.7	Y	Absent	19-APR-23 08:37		NYTCL-8260HLW(14)
L2320723-01D	Plastic 2oz unpreserved for TS	B	NA	3.3	Y	Absent			TS(7)
L2320723-01E	Plastic 120ml unpreserved	A	NA	2.7	Y	Absent			TS(7)
L2320723-01F	Metals Only-Glass 60mL/2oz unpreserved	A	NA	2.7	Y	Absent			BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2320723-01G	Glass 250ml/8oz unpreserved	A	NA	2.7	Y	Absent			NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2320723-01H	Plastic 8oz unpreserved	B	NA	3.3	Y	Absent			A2-537-ISOTOPE-FULL(90)
L2320723-02A	Vial MeOH preserved	A	NA	2.7	Y	Absent			NYTCL-8260HLW(14)
L2320723-02B	Vial water preserved	A	NA	2.7	Y	Absent	19-APR-23 08:37		NYTCL-8260HLW(14)
L2320723-02C	Vial water preserved	A	NA	2.7	Y	Absent	19-APR-23 08:37		NYTCL-8260HLW(14)
L2320723-02D	Plastic 2oz unpreserved for TS	B	NA	3.3	Y	Absent			TS(7)
L2320723-02E	Plastic 120ml unpreserved	A	NA	2.7	Y	Absent			TS(7)
L2320723-02F	Metals Only-Glass 60mL/2oz unpreserved	A	NA	2.7	Y	Absent			BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2320723-02G	Glass 250ml/8oz unpreserved	A	NA	2.7	Y	Absent			NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2320723-02H	Plastic 8oz unpreserved	B	NA	3.3	Y	Absent			A2-537-ISOTOPE-FULL(90)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2320723-03A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2320723-03B	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-03C	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-03D	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L2320723-03E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2320723-03F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2320723-03G	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2320723-03H	Plastic 8oz unpreserved	B	NA		3.3	Y	Absent		A2-537-ISOTOPE-FULL(90)
L2320723-04A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2320723-04B	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-04C	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-04D	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L2320723-04E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2320723-04F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2320723-04G	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2320723-04H	Plastic 8oz unpreserved	B	NA		3.3	Y	Absent		A2-537-ISOTOPE-FULL(90)
L2320723-05A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2320723-05B	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-05C	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-05D	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L2320723-05E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2320723-05F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2320723-05G	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2320723-05H	Plastic 8oz unpreserved	B	NA		3.3	Y	Absent		A2-537-ISOTOPE-FULL(90)
L2320723-06A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2320723-06B	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-06C	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-06D	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L2320723-06E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2320723-06F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2320723-06G	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2320723-06H	Plastic 8oz unpreserved	B	NA		3.3	Y	Absent		A2-537-ISOTOPE-FULL(90)
L2320723-07A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2320723-07B	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-07C	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-07D	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L2320723-07E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2320723-07F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2320723-07G	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2320723-07H	Plastic 8oz unpreserved	B	NA		3.3	Y	Absent		A2-537-ISOTOPE-FULL(90)
L2320723-08A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2320723-08B	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-08C	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-08D	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L2320723-08E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2320723-08F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2320723-08G	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2320723-08H	Plastic 8oz unpreserved	B	NA		3.3	Y	Absent		A2-537-ISOTOPE-FULL(90)
L2320723-09A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2320723-09B	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-09C	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-09D	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L2320723-09E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2320723-09F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2320723-09G	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2320723-09H	Plastic 8oz unpreserved	B	NA		3.3	Y	Absent		A2-537-ISOTOPE-FULL(90)
L2320723-10A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2320723-10B	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-10C	Vial water preserved	A	NA		2.7	Y	Absent	19-APR-23 08:37	NYTCL-8260HLW(14)
L2320723-10D	Plastic 2oz unpreserved for TS	B	NA		3.3	Y	Absent		TS(7)
L2320723-10E	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: NUHART EAST
Project Number: 0201891

Serial_No:05022317:08
Lab Number: L2320723
Report Date: 05/02/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2320723-10F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2320723-10G	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2320723-10H	Plastic 8oz unpreserved	B	NA		3.3	Y	Absent		A2-537-ISOTOPE-FULL(90)

*Values in parentheses indicate holding time in days

Project Name: NUHART EAST
Project Number: 0201891

Serial_No:05022317:08
Lab Number: L2320723
Report Date: 05/02/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluoroctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PPPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluoroctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PPPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PPPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluoroctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluoroctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluoroctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluoroctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluoroctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluoroctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluoroctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluoroctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid	11CI-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9CI-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: NUHART EAST
Project Number: 0201891

Serial_No:05022317:08
Lab Number: L2320723
Report Date: 05/02/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name: NUHART EAST
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Lab Number: L2320723
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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



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Data Qualifiers

Identified Compounds (TICs).

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2320723
Report Date: 05/02/23

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C**, **SM4500CN-CE**, **EPA 180.1**, **SM2130B**, **SM4500CI-D**, **SM2320B**, **SM2540C**, **SM4500H-B**, **SM4500NO2-B**

EPA 332: Perchlorate; **EPA 524.2**: THMs and VOCs; **EPA 504.1**: EDB, DBCP.

Microbiology: **SM9215B**; **SM9223-P/A**, **SM9223B-Colilert-QT**, **SM9222D**.

Non-Potable Water

SM4500H,B, **EPA 120.1**, **SM2510B**, **SM2540C**, **SM2320B**, **SM4500CL-E**, **SM4500F-BC**, **SM4500NH3-BH**: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1**, **SM4500NO3-F**, **EPA 353.2**: Nitrate-N, **SM4500P-E**, **SM4500P-B**, **E**, **SM4500SO4-E**, **SM5220D**, **EPA 410.4**, **SM5210B**, **SM5310C**, **SM4500CL-D**, **EPA 1664**, **EPA 420.1**, **SM4500-CN-CE**, **SM2540D**, **EPA 300**: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

Microbiology: **SM9223B-Colilert-QT**; **Enterolert-QT**, **SM9221E**, **EPA 1600**, **EPA 1603**, **SM9222D**.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8**: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg. **EPA 522**, **EPA 537.1**.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p>		<p>Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>		<p>Page <u>1</u> of <u>1</u></p>		<p>Date Rec'd in Lab <u>4/19/23</u></p>		<p>ALPHA Job # <u>L2320723</u></p>																												
		<p>Project Information</p> <p>Project Name: <u>NiHart East</u> Project Location: <u>49 Dupont St. Brooklyn NY</u> Project # <u>0201891</u></p> <p>(Use Project name as Project #) <input type="checkbox"/></p>		<p>Deliverables</p> <p><input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other</p>		<p>Billing Information</p> <p><input type="checkbox"/> Same as Client Info PO #</p>																														
<p>Client Information</p> <p>Client: <u>H&A of NY</u> Address: <u>237 W 35th Street</u> <u>Suite 1G NY NY</u> Phone: Fax: <u>scommissio@haleyadrich.com</u> Email: <u>mconlon@haley adrich .com</u></p>		<p>Project Manager: <u>Mari Conlon</u> ALPHAQuote #:</p>		<p>Regulatory Requirement</p> <p><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input checked="" type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge</p>		<p>Disposal Site Information</p> <p>Please identify below location of applicable disposal facilities.</p>																														
		<p>Turn-Around Time</p> <p>Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:</p>				<p>Disposal Facility:</p> <p><input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other</p>																														
		<p>These samples have been previously analyzed by Alpha <input type="checkbox"/></p> <p>Other project specific requirements/comments:</p>				<p>ANALYSIS</p>		<p>Sample Filtration</p> <p><input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do</p> <p>(Please Specify below)</p>																												
<p>Please specify Metals or TAL.</p>																																				
<p>ALPHA Lab ID (Lab Use Only)</p> <p>20723-01 -02 -03 -04 -05 -06 -07 -08 -09 -10</p>	<p>Sample ID</p> <p>SW-01 (5') SW-02 (5') SW-03 (5') SW-04 (5') SW-05 (5') SW-06 (5') SW-07 (5') SW-08 (5') ST-01 (6') ST-02 (6')</p>	<p>Collection</p> <table border="1"> <tr> <th>Date</th> <th>Time</th> </tr> <tr> <td><u>4/18/23</u></td> <td><u>1300</u></td> </tr> <tr> <td></td> <td><u>1305</u></td> </tr> <tr> <td></td> <td><u>1310</u></td> </tr> <tr> <td></td> <td><u>1315</u></td> </tr> <tr> <td></td> <td><u>1340</u></td> </tr> <tr> <td></td> <td><u>1345</u></td> </tr> <tr> <td></td> <td><u>1350</u></td> </tr> <tr> <td></td> <td><u>1355</u></td> </tr> <tr> <td></td> <td><u>1320</u></td> </tr> <tr> <td></td> <td><u>1400</u></td> </tr> </table>		Date	Time	<u>4/18/23</u>	<u>1300</u>		<u>1305</u>		<u>1310</u>		<u>1315</u>		<u>1340</u>		<u>1345</u>		<u>1350</u>		<u>1355</u>		<u>1320</u>		<u>1400</u>	<p>Sample Matrix</p> <p>Soil SS AS SS AS SS AS SS AS SS</p>	<p>Sampler's Initials</p> <p><u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u></p>	<p>VOCs</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p>SVOCs</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p>Pesticides</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p>PCBs</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p>TAL Metals</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p>1,4-Dioxane</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p>PFAS/Methed 537</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p>Total Bottles</p> <p>Sample Specific Comments</p>	
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<p>Preservative Code: A = None B = HCl C = HNO₃ D = H₂SO₄ E = NaOH F = MeOH G = NaHSO₄ H = Na₂S₂O₃ K/E = Zn Ac/NaOH O = Other </p>		<p>Westboro: Certification No: MA935 Mansfield: Certification No: MA015</p>						<p>Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)</p>																												
<p>Relinquished By: <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> </p>		<p>Date/Time <u>4/18/23 1550</u> <u>4/18/23 1920</u> <u>4/18/23 2330</u> <u>4-19-23 0130</u> <u>4-19-23 0130</u> <u>4-19-23 0130</u> <u>4-19-23 0130</u> <u>4-19-23 0130</u> <u>4-19-23 0130</u> </p>		<p>Received By: <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> <u>JL</u> </p>		<p>Date/Time <u>4-18-23 1550</u> <u>4-18-23 2100</u> <u>4-18-23 2330</u> <u>4-18-23 0100</u> <u>4-18-23 0100</u> <u>4-18-23 0100</u> <u>4-18-23 0100</u> <u>4-18-23 0100</u> <u>4-18-23 0100</u> </p>																														
<p>Form No: 01-25 HC (rev. 30-Sept-2013)</p>																																				



ANALYTICAL REPORT

Lab Number:	L2321045
Client:	Haley & Aldrich 237 West 35th Street 16th Floor New York, NY 10123
ATTN:	Mari Cate Conlon
Phone:	(347) 271-1521
Project Name:	NUHART EAST
Project Number:	0201891
Report Date:	05/03/23

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2321045-01	SW-09 (5')	SOIL	49 DUPONT ST. BROOKLYN	04/19/23 15:00	04/19/23
L2321045-02	SW-10 (5')	SOIL	49 DUPONT ST. BROOKLYN	04/19/23 15:05	04/19/23
L2321045-03	SW-11 (5')	SOIL	49 DUPONT ST. BROOKLYN	04/19/23 15:10	04/19/23
L2321045-04	SW-12 (5')	SOIL	49 DUPONT ST. BROOKLYN	04/19/23 15:15	04/19/23
L2321045-05	ST-03 (6')	SOIL	49 DUPONT ST. BROOKLYN	04/19/23 15:20	04/19/23

Project Name: NUHART EAST
Project Number: 0201891

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Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: NUHART EAST
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Report Date: 05/03/23

Case Narrative (continued)

Report Submission

May 03, 2023: This final report includes the results of all requested analyses.

April 27, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2321045-02: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (134%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2321045-03: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (49%) and the surrogate recovery for 4-bromofluorobenzene (150%) were outside the acceptance criteria; however, re-analysis achieved the following results: 1,4-dichlorobenzene-d4 (41%), toluene-d8 (136%) and 4-bromofluorobenzene (219%). The results of both analyses are reported.

L2321045-04: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (272%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

Semivolatile Organics

L2321045-01D, -02D, -03D, and -04D: The sample has elevated detection limits due to the dilution required by the sample matrix.

L2321045-01D: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (7%) and 2,4,6-tribromophenol (4%); however, re-extraction achieved similar results: 2-fluorophenol (13%) and 2,4,6-tribromophenol (8%). The results of both extractions are reported.

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Case Narrative (continued)

Perfluorinated Alkyl Acids by Isotope Dilution

L2321045-01, -02, -03, -04, -05, WG1771537-1 and WG1771537-2: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2321045-01, -02, -03, -04, -05, WG1771537-1 and WG1771537-2: The MeOH fraction of the extraction is reported for the following compounds: Perfluoroctanesulfonamide (FOSA), N-Methyl Perfluoroctane Sulfonamide (NMeFOSA), N-Ethyl Perfluoroctane Sulfonamide (NEtFOSA), N-Methyl Perfluoroctanesulfonamido Ethanol (NMeFOSE), and N-Ethyl Perfluoroctanesulfonamido Ethanol (NEtFOSE) due to better extraction efficiency of the Surrogates (Extracted Internal Standards).

Pesticides

L2321045-02: The internal standard (IS) response for 1-bromo-2-nitrobenzene (262%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (29%) and decachlorobiphenyl (26%) due to interference with the Internal Standard.

L2321045-03: The internal standard (IS) response for 1-bromo-2-nitrobenzene (723%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (10%) and decachlorobiphenyl (8%) due to interference with the Internal Standard.

L2321045-04: The internal standard (IS) response for 1-bromo-2-nitrobenzene (365%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (12%) and decachlorobiphenyl (16%) due to interference with the Internal Standard.

L2321045-05: The internal standard (IS) response for 1-bromo-2-nitrobenzene (371%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (23%) and

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Case Narrative (continued)

decachlorobiphenyl (23%) due to interference with the Internal Standard.

Total Metals

L2321045-01 through -05: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

The WG1769141-1 Method Blank, associated with L2321045-01 through -05, has a concentration above the reporting limit for iron. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative

Date: 05/03/23

ORGANICS

VOLATILES



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-01	Date Collected:	04/19/23 15:00
Client ID:	SW-09 (5')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/24/23 20:34
Analyst: JIC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	350	160	1
1,1-Dichloroethane	ND		ug/kg	69	10.	1
Chloroform	ND		ug/kg	100	9.7	1
Carbon tetrachloride	ND		ug/kg	69	16.	1
1,2-Dichloropropane	ND		ug/kg	69	8.6	1
Dibromochloromethane	ND		ug/kg	69	9.7	1
1,1,2-Trichloroethane	ND		ug/kg	69	18.	1
Tetrachloroethene	150		ug/kg	35	14.	1
Chlorobenzene	ND		ug/kg	35	8.8	1
Trichlorofluoromethane	ND		ug/kg	280	48.	1
1,2-Dichloroethane	ND		ug/kg	69	18.	1
1,1,1-Trichloroethane	ND		ug/kg	35	12.	1
Bromodichloromethane	ND		ug/kg	35	7.5	1
trans-1,3-Dichloropropene	ND		ug/kg	69	19.	1
cis-1,3-Dichloropropene	ND		ug/kg	35	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	35	11.	1
1,1-Dichloropropene	ND		ug/kg	35	11.	1
Bromoform	ND		ug/kg	280	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	35	11.	1
Benzene	25	J	ug/kg	35	11.	1
Toluene	170		ug/kg	69	38.	1
Ethylbenzene	270		ug/kg	69	9.8	1
Chloromethane	ND		ug/kg	280	64.	1
Bromomethane	ND		ug/kg	140	40.	1
Vinyl chloride	ND		ug/kg	69	23.	1
Chloroethane	ND		ug/kg	140	31.	1
1,1-Dichloroethene	ND		ug/kg	69	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	9.5	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
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SAMPLE RESULTS

Lab ID:	L2321045-01	Date Collected:	04/19/23 15:00
Client ID:	SW-09 (5')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	35	9.5	1
1,2-Dichlorobenzene	29	J	ug/kg	140	10.	1
1,3-Dichlorobenzene	ND		ug/kg	140	10.	1
1,4-Dichlorobenzene	ND		ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	54	J	ug/kg	140	39.	1
o-Xylene	22	J	ug/kg	69	20.	1
Xylenes, Total	76	J	ug/kg	69	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	69	12.	1
1,2-Dichloroethene, Total	ND		ug/kg	69	9.5	1
Dibromomethane	ND		ug/kg	140	16.	1
Styrene	27	J	ug/kg	69	14.	1
Dichlorodifluoromethane	ND		ug/kg	690	63.	1
Acetone	1200		ug/kg	690	330	1
Carbon disulfide	ND		ug/kg	690	320	1
2-Butanone	ND		ug/kg	690	150	1
Vinyl acetate	ND		ug/kg	690	150	1
4-Methyl-2-pentanone	ND		ug/kg	690	89.	1
1,2,3-Trichloropropane	ND		ug/kg	140	8.8	1
2-Hexanone	ND		ug/kg	690	82.	1
Bromochloromethane	ND		ug/kg	140	14.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	69	19.	1
1,3-Dichloropropane	ND		ug/kg	140	12.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	35	9.1	1
Bromobenzene	ND		ug/kg	140	10.	1
n-Butylbenzene	440		ug/kg	69	12.	1
sec-Butylbenzene	520		ug/kg	69	10.	1
tert-Butylbenzene	23	J	ug/kg	140	8.2	1
o-Chlorotoluene	ND		ug/kg	140	13.	1
p-Chlorotoluene	ND		ug/kg	140	7.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	210	69.	1
Hexachlorobutadiene	ND		ug/kg	280	12.	1
Isopropylbenzene	310		ug/kg	69	7.5	1
p-Isopropyltoluene	13	J	ug/kg	69	7.5	1
Naphthalene	3500		ug/kg	280	45.	1
Acrylonitrile	ND		ug/kg	280	80.	1



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-01
 Client ID: SW-09 (5')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	600		ug/kg	69	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	19.	1
1,3,5-Trimethylbenzene	ND		ug/kg	140	13.	1
1,2,4-Trimethylbenzene	ND		ug/kg	140	23.	1
1,4-Dioxane	ND		ug/kg	5500	2400	1
p-Diethylbenzene	240		ug/kg	140	12.	1
p-Ethyltoluene	ND		ug/kg	140	26.	1
1,2,4,5-Tetramethylbenzene	700		ug/kg	140	13.	1
Ethyl ether	ND		ug/kg	140	24.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	350	98.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	98		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-02
Client ID: SW-10 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:05
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/25/23 14:33
Analyst: LAC
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.65	0.25	1
Chlorobenzene	ND		ug/kg	0.65	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.65	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.65	0.20	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.21	1
Benzene	2.2		ug/kg	0.65	0.21	1
Toluene	0.92	J	ug/kg	1.3	0.70	1
Ethylbenzene	10		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-02	Date Collected:	04/19/23 15:05
Client ID:	SW-10 (5')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	0.21	J	ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	2.0	J	ug/kg	2.6	0.72	1
o-Xylene	1.1	J	ug/kg	1.3	0.38	1
Xylenes, Total	3.1	J	ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	73		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.65	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	4.0		ug/kg	1.3	0.22	1
sec-Butylbenzene	4.4		ug/kg	1.3	0.19	1
tert-Butylbenzene	0.46	J	ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	8.5		ug/kg	1.3	0.14	1
p-Isopropyltoluene	0.64	J	ug/kg	1.3	0.14	1
Naphthalene	2.0	J	ug/kg	5.2	0.84	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-02
 Client ID: SW-10 (5')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:05
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	8.9		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	0.93	J	ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	1.8	J	ug/kg	2.6	0.23	1
p-Ethyltoluene	1.2	J	ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	7.4		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	134	Q	70-130
Dibromofluoromethane	101		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-03	Date Collected:	04/19/23 15:10
Client ID:	SW-11 (5')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil
Analytical Method:	1,8260D
Analytical Date:	04/24/23 19:42
Analyst:	JIC
Percent Solids:	87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	1.0		ug/kg	0.51	0.17	1
Toluene	0.64	J	ug/kg	1.0	0.55	1
Ethylbenzene	1.4		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-03	Date Collected:	04/19/23 15:10
Client ID:	SW-11 (5')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	0.61	J	ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	1.8	J	ug/kg	2.0	0.57	1
o-Xylene	1.7		ug/kg	1.0	0.30	1
Xylenes, Total	3.5	J	ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	150		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	40		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	2.4		ug/kg	1.0	0.17	1
sec-Butylbenzene	4.3		ug/kg	1.0	0.15	1
tert-Butylbenzene	0.43	J	ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	4.0		ug/kg	1.0	0.11	1
p-Isopropyltoluene	1.1		ug/kg	1.0	0.11	1
Naphthalene	2.2	J	ug/kg	4.1	0.66	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-03
 Client ID: SW-11 (5')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:10
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	5.2		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	0.34	J	ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	2.0		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	36.	1
p-Diethylbenzene	1.3	J	ug/kg	2.0	0.18	1
p-Ethyltoluene	2.3		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	3.3		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	150	Q	70-130
Dibromofluoromethane	98		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-03	R	Date Collected:	04/19/23 15:10
Client ID:	SW-11 (5')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/25/23 14:59
Analyst: LAC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.4	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	1.1		ug/kg	0.48	0.16	1
Toluene	1.0		ug/kg	0.97	0.52	1
Ethylbenzene	0.84	J	ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.97	0.32	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-03	R	Date Collected:	04/19/23 15:10
Client ID:	SW-11 (5')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	2.5		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	0.46	J	ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	3.8		ug/kg	1.9	0.54	1
o-Xylene	3.8		ug/kg	0.97	0.28	1
Xylenes, Total	7.6		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.88	1
Acetone	51		ug/kg	9.7	4.6	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.1	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	8.0		ug/kg	0.97	0.16	1
sec-Butylbenzene	15		ug/kg	0.97	0.14	1
tert-Butylbenzene	1.6	J	ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	14		ug/kg	0.97	0.10	1
p-Isopropyltoluene	4.1		ug/kg	0.97	0.10	1
Naphthalene	6.2		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-03	R	Date Collected:	04/19/23 15:10
Client ID:	SW-11 (5')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	19		ug/kg	0.97	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	0.88	J	ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	5.4		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	77	34.	1
p-Diethylbenzene	4.9		ug/kg	1.9	0.17	1
p-Ethyltoluene	7.8		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	8.6		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	136	Q	70-130
4-Bromofluorobenzene	219	Q	70-130
Dibromofluoromethane	97		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-04
Client ID: SW-12 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:15
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/24/23 19:16
Analyst: JIC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	0.50	J	ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	0.70		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	4.9		ug/kg	0.57	0.19	1
Toluene	1.2		ug/kg	1.1	0.62	1
Ethylbenzene	66		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-04	Date Collected:	04/19/23 15:15
Client ID:	SW-12 (5')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	12		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	1.3	J	ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	4.7		ug/kg	2.3	0.64	1
o-Xylene	5.9		ug/kg	1.1	0.33	1
Xylenes, Total	11		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	0.82	J	ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	75		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	20		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	230		ug/kg	1.1	0.19	1
sec-Butylbenzene	240		ug/kg	1.1	0.17	1
tert-Butylbenzene	9.5		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	140		ug/kg	1.1	0.12	1
p-Isopropyltoluene	5.2		ug/kg	1.1	0.12	1
Naphthalene	55		ug/kg	4.6	0.74	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-04
 Client ID: SW-12 (5')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:15
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	320		ug/kg	1.1	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	0.84	J	ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	5.8		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	130		ug/kg	2.3	0.20	1
p-Ethyltoluene	4.1		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	280		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	272	Q	70-130
Dibromofluoromethane	93		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-05
Client ID: ST-03 (6')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:20
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/21/23 15:51
Analyst: AJK
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND	ug/kg	230	110	1	
1,1-Dichloroethane	ND	ug/kg	46	6.7	1	
Chloroform	ND	ug/kg	70	6.5	1	
Carbon tetrachloride	ND	ug/kg	46	11.	1	
1,2-Dichloropropane	ND	ug/kg	46	5.8	1	
Dibromochloromethane	ND	ug/kg	46	6.5	1	
1,1,2-Trichloroethane	ND	ug/kg	46	12.	1	
Tetrachloroethene	ND	ug/kg	23	9.1	1	
Chlorobenzene	ND	ug/kg	23	5.9	1	
Trichlorofluoromethane	ND	ug/kg	180	32.	1	
1,2-Dichloroethane	ND	ug/kg	46	12.	1	
1,1,1-Trichloroethane	ND	ug/kg	23	7.8	1	
Bromodichloromethane	ND	ug/kg	23	5.1	1	
trans-1,3-Dichloropropene	ND	ug/kg	46	13.	1	
cis-1,3-Dichloropropene	ND	ug/kg	23	7.3	1	
1,3-Dichloropropene, Total	ND	ug/kg	23	7.3	1	
1,1-Dichloropropene	ND	ug/kg	23	7.4	1	
Bromoform	ND	ug/kg	180	11.	1	
1,1,2,2-Tetrachloroethane	ND	ug/kg	23	7.7	1	
Benzene	ND	ug/kg	23	7.7	1	
Toluene	ND	ug/kg	46	25.	1	
Ethylbenzene	330	ug/kg	46	6.5	1	
Chloromethane	ND	ug/kg	180	43.	1	
Bromomethane	ND	ug/kg	93	27.	1	
Vinyl chloride	ND	ug/kg	46	16.	1	
Chloroethane	ND	ug/kg	93	21.	1	
1,1-Dichloroethene	ND	ug/kg	46	11.	1	
trans-1,2-Dichloroethene	ND	ug/kg	70	6.4	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-05	Date Collected:	04/19/23 15:20
Client ID:	ST-03 (6')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	23	6.4	1
1,2-Dichlorobenzene	60	J	ug/kg	93	6.7	1
1,3-Dichlorobenzene	ND		ug/kg	93	6.9	1
1,4-Dichlorobenzene	ND		ug/kg	93	7.9	1
Methyl tert butyl ether	ND		ug/kg	93	9.3	1
p/m-Xylene	64	J	ug/kg	93	26.	1
o-Xylene	41	J	ug/kg	46	14.	1
Xylenes, Total	110	J	ug/kg	46	14.	1
cis-1,2-Dichloroethene	ND		ug/kg	46	8.1	1
1,2-Dichloroethene, Total	ND		ug/kg	46	6.4	1
Dibromomethane	ND		ug/kg	93	11.	1
Styrene	ND		ug/kg	46	9.1	1
Dichlorodifluoromethane	ND		ug/kg	460	42.	1
Acetone	280	J	ug/kg	460	220	1
Carbon disulfide	ND		ug/kg	460	210	1
2-Butanone	ND		ug/kg	460	100	1
Vinyl acetate	ND		ug/kg	460	100	1
4-Methyl-2-pentanone	120	J	ug/kg	460	59.	1
1,2,3-Trichloropropane	ND		ug/kg	93	5.9	1
2-Hexanone	ND		ug/kg	460	55.	1
Bromochloromethane	ND		ug/kg	93	9.5	1
2,2-Dichloropropane	ND		ug/kg	93	9.4	1
1,2-Dibromoethane	ND		ug/kg	46	13.	1
1,3-Dichloropropane	ND		ug/kg	93	7.8	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	23	6.1	1
Bromobenzene	ND		ug/kg	93	6.7	1
n-Butylbenzene	570		ug/kg	46	7.8	1
sec-Butylbenzene	670		ug/kg	46	6.8	1
tert-Butylbenzene	33	J	ug/kg	93	5.5	1
o-Chlorotoluene	ND		ug/kg	93	8.9	1
p-Chlorotoluene	ND		ug/kg	93	5.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	140	46.	1
Hexachlorobutadiene	ND		ug/kg	180	7.8	1
Isopropylbenzene	350		ug/kg	46	5.1	1
p-Isopropyltoluene	18	J	ug/kg	46	5.1	1
Naphthalene	4600		ug/kg	180	30.	1
Acrylonitrile	ND		ug/kg	180	53.	1



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-05
 Client ID: ST-03 (6')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:20
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	700		ug/kg	46	7.9	1
1,2,3-Trichlorobenzene	ND		ug/kg	93	15.	1
1,2,4-Trichlorobenzene	ND		ug/kg	93	13.	1
1,3,5-Trimethylbenzene	ND		ug/kg	93	9.0	1
1,2,4-Trimethylbenzene	37	J	ug/kg	93	16.	1
1,4-Dioxane	ND		ug/kg	3700	1600	1
p-Diethylbenzene	360		ug/kg	93	8.2	1
p-Ethyltoluene	19	J	ug/kg	93	18.	1
1,2,4,5-Tetramethylbenzene	880		ug/kg	93	8.9	1
Ethyl ether	ND		ug/kg	93	16.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	230	66.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/21/23 11:53
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s):	05	Batch:	WG1770480-5		
Methylene chloride	ND	ug/kg	250	110	
1,1-Dichloroethane	ND	ug/kg	50	7.2	
Chloroform	ND	ug/kg	75	7.0	
Carbon tetrachloride	ND	ug/kg	50	12.	
1,2-Dichloropropane	ND	ug/kg	50	6.2	
Dibromochloromethane	ND	ug/kg	50	7.0	
1,1,2-Trichloroethane	ND	ug/kg	50	13.	
Tetrachloroethene	ND	ug/kg	25	9.8	
Chlorobenzene	ND	ug/kg	25	6.4	
Trichlorofluoromethane	ND	ug/kg	200	35.	
1,2-Dichloroethane	ND	ug/kg	50	13.	
1,1,1-Trichloroethane	ND	ug/kg	25	8.4	
Bromodichloromethane	ND	ug/kg	25	5.4	
trans-1,3-Dichloropropene	ND	ug/kg	50	14.	
cis-1,3-Dichloropropene	ND	ug/kg	25	7.9	
1,3-Dichloropropene, Total	ND	ug/kg	25	7.9	
1,1-Dichloropropene	ND	ug/kg	25	8.0	
Bromoform	ND	ug/kg	200	12.	
1,1,2,2-Tetrachloroethane	ND	ug/kg	25	8.3	
Benzene	ND	ug/kg	25	8.3	
Toluene	ND	ug/kg	50	27.	
Ethylbenzene	ND	ug/kg	50	7.0	
Chloromethane	ND	ug/kg	200	47.	
Bromomethane	ND	ug/kg	100	29.	
Vinyl chloride	ND	ug/kg	50	17.	
Chloroethane	ND	ug/kg	100	23.	
1,1-Dichloroethene	ND	ug/kg	50	12.	
trans-1,2-Dichloroethene	ND	ug/kg	75	6.8	
Trichloroethene	ND	ug/kg	25	6.8	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/21/23 11:53
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s):	05		Batch:	WG1770480-5	
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	300	J	ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/21/23 11:53
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s):	05	Batch:	WG1770480-5		
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/24/23 17:32
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):		03-04	Batch:	WG1770927-5	
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/24/23 17:32
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):		03-04	Batch:	WG1770927-5	
1,2-Dichlorobenzene	ND	ug/kg	2.0	0.14	
1,3-Dichlorobenzene	ND	ug/kg	2.0	0.15	
1,4-Dichlorobenzene	ND	ug/kg	2.0	0.17	
Methyl tert butyl ether	ND	ug/kg	2.0	0.20	
p/m-Xylene	ND	ug/kg	2.0	0.56	
o-Xylene	ND	ug/kg	1.0	0.29	
Xylenes, Total	ND	ug/kg	1.0	0.29	
cis-1,2-Dichloroethene	ND	ug/kg	1.0	0.18	
1,2-Dichloroethene, Total	ND	ug/kg	1.0	0.14	
Dibromomethane	ND	ug/kg	2.0	0.24	
Styrene	ND	ug/kg	1.0	0.20	
Dichlorodifluoromethane	ND	ug/kg	10	0.92	
Acetone	ND	ug/kg	10	4.8	
Carbon disulfide	ND	ug/kg	10	4.6	
2-Butanone	ND	ug/kg	10	2.2	
Vinyl acetate	ND	ug/kg	10	2.2	
4-Methyl-2-pentanone	ND	ug/kg	10	1.3	
1,2,3-Trichloropropane	ND	ug/kg	2.0	0.13	
2-Hexanone	ND	ug/kg	10	1.2	
Bromochloromethane	ND	ug/kg	2.0	0.20	
2,2-Dichloropropane	ND	ug/kg	2.0	0.20	
1,2-Dibromoethane	ND	ug/kg	1.0	0.28	
1,3-Dichloropropane	ND	ug/kg	2.0	0.17	
1,1,1,2-Tetrachloroethane	ND	ug/kg	0.50	0.13	
Bromobenzene	ND	ug/kg	2.0	0.14	
n-Butylbenzene	ND	ug/kg	1.0	0.17	
sec-Butylbenzene	ND	ug/kg	1.0	0.15	
tert-Butylbenzene	ND	ug/kg	2.0	0.12	
o-Chlorotoluene	ND	ug/kg	2.0	0.19	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/24/23 17:32
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):		03-04	Batch:	WG1770927-5	
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/24/23 17:32
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s):	01	Batch:	WG1770928-5		
Methylene chloride	ND	ug/kg	250	110	
1,1-Dichloroethane	ND	ug/kg	50	7.2	
Chloroform	ND	ug/kg	75	7.0	
Carbon tetrachloride	ND	ug/kg	50	12.	
1,2-Dichloropropane	ND	ug/kg	50	6.2	
Dibromochloromethane	ND	ug/kg	50	7.0	
1,1,2-Trichloroethane	ND	ug/kg	50	13.	
Tetrachloroethene	ND	ug/kg	25	9.8	
Chlorobenzene	ND	ug/kg	25	6.4	
Trichlorofluoromethane	ND	ug/kg	200	35.	
1,2-Dichloroethane	ND	ug/kg	50	13.	
1,1,1-Trichloroethane	ND	ug/kg	25	8.4	
Bromodichloromethane	ND	ug/kg	25	5.4	
trans-1,3-Dichloropropene	ND	ug/kg	50	14.	
cis-1,3-Dichloropropene	ND	ug/kg	25	7.9	
1,3-Dichloropropene, Total	ND	ug/kg	25	7.9	
1,1-Dichloropropene	ND	ug/kg	25	8.0	
Bromoform	ND	ug/kg	200	12.	
1,1,2,2-Tetrachloroethane	ND	ug/kg	25	8.3	
Benzene	ND	ug/kg	25	8.3	
Toluene	ND	ug/kg	50	27.	
Ethylbenzene	ND	ug/kg	50	7.0	
Chloromethane	ND	ug/kg	200	47.	
Bromomethane	ND	ug/kg	100	29.	
Vinyl chloride	ND	ug/kg	50	17.	
Chloroethane	ND	ug/kg	100	23.	
1,1-Dichloroethene	ND	ug/kg	50	12.	
trans-1,2-Dichloroethene	ND	ug/kg	75	6.8	
Trichloroethene	ND	ug/kg	25	6.8	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/24/23 17:32
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s):	01	Batch:	WG1770928-5		
1,2-Dichlorobenzene	ND	ug/kg	100	7.2	
1,3-Dichlorobenzene	ND	ug/kg	100	7.4	
1,4-Dichlorobenzene	ND	ug/kg	100	8.6	
Methyl tert butyl ether	ND	ug/kg	100	10.	
p/m-Xylene	ND	ug/kg	100	28.	
o-Xylene	ND	ug/kg	50	14.	
Xylenes, Total	ND	ug/kg	50	14.	
cis-1,2-Dichloroethene	ND	ug/kg	50	8.8	
1,2-Dichloroethene, Total	ND	ug/kg	50	6.8	
Dibromomethane	ND	ug/kg	100	12.	
Styrene	ND	ug/kg	50	9.8	
Dichlorodifluoromethane	ND	ug/kg	500	46.	
Acetone	ND	ug/kg	500	240	
Carbon disulfide	ND	ug/kg	500	230	
2-Butanone	ND	ug/kg	500	110	
Vinyl acetate	ND	ug/kg	500	110	
4-Methyl-2-pentanone	ND	ug/kg	500	64.	
1,2,3-Trichloropropane	ND	ug/kg	100	6.4	
2-Hexanone	ND	ug/kg	500	59.	
Bromochloromethane	ND	ug/kg	100	10.	
2,2-Dichloropropane	ND	ug/kg	100	10.	
1,2-Dibromoethane	ND	ug/kg	50	14.	
1,3-Dichloropropane	ND	ug/kg	100	8.4	
1,1,1,2-Tetrachloroethane	ND	ug/kg	25	6.6	
Bromobenzene	ND	ug/kg	100	7.2	
n-Butylbenzene	ND	ug/kg	50	8.4	
sec-Butylbenzene	ND	ug/kg	50	7.3	
tert-Butylbenzene	ND	ug/kg	100	5.9	
o-Chlorotoluene	ND	ug/kg	100	9.6	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/24/23 17:32
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s):	01	Batch:	WG1770928-5		
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/25/23 13:01
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):		02-03	Batch:	WG1771090-5	
Methylene chloride	ND	ug/kg	5.0	2.3	
1,1-Dichloroethane	ND	ug/kg	1.0	0.14	
Chloroform	ND	ug/kg	1.5	0.14	
Carbon tetrachloride	ND	ug/kg	1.0	0.23	
1,2-Dichloropropane	ND	ug/kg	1.0	0.12	
Dibromochloromethane	ND	ug/kg	1.0	0.14	
1,1,2-Trichloroethane	ND	ug/kg	1.0	0.27	
Tetrachloroethene	ND	ug/kg	0.50	0.20	
Chlorobenzene	ND	ug/kg	0.50	0.13	
Trichlorofluoromethane	ND	ug/kg	4.0	0.70	
1,2-Dichloroethane	ND	ug/kg	1.0	0.26	
1,1,1-Trichloroethane	ND	ug/kg	0.50	0.17	
Bromodichloromethane	ND	ug/kg	0.50	0.11	
trans-1,3-Dichloropropene	ND	ug/kg	1.0	0.27	
cis-1,3-Dichloropropene	ND	ug/kg	0.50	0.16	
1,3-Dichloropropene, Total	ND	ug/kg	0.50	0.16	
1,1-Dichloropropene	ND	ug/kg	0.50	0.16	
Bromoform	ND	ug/kg	4.0	0.25	
1,1,2,2-Tetrachloroethane	ND	ug/kg	0.50	0.17	
Benzene	ND	ug/kg	0.50	0.17	
Toluene	ND	ug/kg	1.0	0.54	
Ethylbenzene	ND	ug/kg	1.0	0.14	
Chloromethane	ND	ug/kg	4.0	0.93	
Bromomethane	ND	ug/kg	2.0	0.58	
Vinyl chloride	ND	ug/kg	1.0	0.34	
Chloroethane	ND	ug/kg	2.0	0.45	
1,1-Dichloroethene	ND	ug/kg	1.0	0.24	
trans-1,2-Dichloroethene	ND	ug/kg	1.5	0.14	
Trichloroethene	ND	ug/kg	0.50	0.14	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/25/23 13:01
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):		02-03	Batch:	WG1771090-5	
1,2-Dichlorobenzene	ND	ug/kg	2.0	0.14	
1,3-Dichlorobenzene	ND	ug/kg	2.0	0.15	
1,4-Dichlorobenzene	ND	ug/kg	2.0	0.17	
Methyl tert butyl ether	ND	ug/kg	2.0	0.20	
p/m-Xylene	ND	ug/kg	2.0	0.56	
o-Xylene	ND	ug/kg	1.0	0.29	
Xylenes, Total	ND	ug/kg	1.0	0.29	
cis-1,2-Dichloroethene	ND	ug/kg	1.0	0.18	
1,2-Dichloroethene, Total	ND	ug/kg	1.0	0.14	
Dibromomethane	ND	ug/kg	2.0	0.24	
Styrene	ND	ug/kg	1.0	0.20	
Dichlorodifluoromethane	ND	ug/kg	10	0.92	
Acetone	ND	ug/kg	10	4.8	
Carbon disulfide	ND	ug/kg	10	4.6	
2-Butanone	ND	ug/kg	10	2.2	
Vinyl acetate	ND	ug/kg	10	2.2	
4-Methyl-2-pentanone	ND	ug/kg	10	1.3	
1,2,3-Trichloropropane	ND	ug/kg	2.0	0.13	
2-Hexanone	ND	ug/kg	10	1.2	
Bromochloromethane	ND	ug/kg	2.0	0.20	
2,2-Dichloropropane	ND	ug/kg	2.0	0.20	
1,2-Dibromoethane	ND	ug/kg	1.0	0.28	
1,3-Dichloropropane	ND	ug/kg	2.0	0.17	
1,1,1,2-Tetrachloroethane	ND	ug/kg	0.50	0.13	
Bromobenzene	ND	ug/kg	2.0	0.14	
n-Butylbenzene	ND	ug/kg	1.0	0.17	
sec-Butylbenzene	ND	ug/kg	1.0	0.15	
tert-Butylbenzene	ND	ug/kg	2.0	0.12	
o-Chlorotoluene	ND	ug/kg	2.0	0.19	

Project Name: NUHART EAST
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Lab Number: L2321045
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Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/25/23 13:01
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):	02-03		Batch:	WG1771090-5	
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1770480-3 WG1770480-4								
Methylene chloride	93		90		70-130	3		30
1,1-Dichloroethane	86		84		70-130	2		30
Chloroform	99		96		70-130	3		30
Carbon tetrachloride	97		95		70-130	2		30
1,2-Dichloropropane	82		81		70-130	1		30
Dibromochloromethane	87		88		70-130	1		30
1,1,2-Trichloroethane	88		86		70-130	2		30
Tetrachloroethene	82		80		70-130	2		30
Chlorobenzene	88		88		70-130	0		30
Trichlorofluoromethane	109		110		70-139	1		30
1,2-Dichloroethane	95		93		70-130	2		30
1,1,1-Trichloroethane	102		100		70-130	2		30
Bromodichloromethane	98		98		70-130	0		30
trans-1,3-Dichloropropene	85		86		70-130	1		30
cis-1,3-Dichloropropene	92		92		70-130	0		30
1,1-Dichloropropene	98		96		70-130	2		30
Bromoform	80		84		70-130	5		30
1,1,2,2-Tetrachloroethane	79		83		70-130	5		30
Benzene	97		95		70-130	2		30
Toluene	86		84		70-130	2		30
Ethylbenzene	90		88		70-130	2		30
Chloromethane	62		59		52-130	5		30
Bromomethane	116		111		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1770480-3 WG1770480-4								
Vinyl chloride	77		73		67-130	5		30
Chloroethane	100		100		50-151	0		30
1,1-Dichloroethene	103		102		65-135	1		30
trans-1,2-Dichloroethene	92		90		70-130	2		30
Trichloroethene	99		98		70-130	1		30
1,2-Dichlorobenzene	84		87		70-130	4		30
1,3-Dichlorobenzene	84		87		70-130	4		30
1,4-Dichlorobenzene	83		86		70-130	4		30
Methyl tert butyl ether	97		97		66-130	0		30
p/m-Xylene	90		90		70-130	0		30
o-Xylene	91		89		70-130	2		30
cis-1,2-Dichloroethene	93		93		70-130	0		30
Dibromomethane	94		94		70-130	0		30
Styrene	92		93		70-130	1		30
Dichlorodifluoromethane	75		74		30-146	1		30
Acetone	96		97		54-140	1		30
Carbon disulfide	97		96		59-130	1		30
2-Butanone	62	Q	58	Q	70-130	7		30
Vinyl acetate	76		76		70-130	0		30
4-Methyl-2-pentanone	64	Q	65	Q	70-130	2		30
1,2,3-Trichloropropane	86		91		68-130	6		30
2-Hexanone	58	Q	60	Q	70-130	3		30
Bromochloromethane	93		91		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1770480-3 WG1770480-4								
2,2-Dichloropropane	93		91		70-130	2		30
1,2-Dibromoethane	87		88		70-130	1		30
1,3-Dichloropropane	88		88		69-130	0		30
1,1,1,2-Tetrachloroethane	91		90		70-130	1		30
Bromobenzene	83		86		70-130	4		30
n-Butylbenzene	87		89		70-130	2		30
sec-Butylbenzene	87		88		70-130	1		30
tert-Butylbenzene	86		87		70-130	1		30
o-Chlorotoluene	85		89		70-130	5		30
p-Chlorotoluene	85		88		70-130	3		30
1,2-Dibromo-3-chloropropane	76		78		68-130	3		30
Hexachlorobutadiene	86		87		67-130	1		30
Isopropylbenzene	87		88		70-130	1		30
p-Isopropyltoluene	85		86		70-130	1		30
Naphthalene	80		84		70-130	5		30
Acrylonitrile	69	Q	71		70-130	3		30
n-Propylbenzene	87		88		70-130	1		30
1,2,3-Trichlorobenzene	85		89		70-130	5		30
1,2,4-Trichlorobenzene	82		88		70-130	7		30
1,3,5-Trimethylbenzene	87		88		70-130	1		30
1,2,4-Trimethylbenzene	86		87		70-130	1		30
1,4-Dioxane	90		86		65-136	5		30
p-Diethylbenzene	85		86		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1770480-3 WG1770480-4								
p-Ethyltoluene	86		88		70-130	2		30
1,2,4,5-Tetramethylbenzene	86		88		70-130	2		30
Ethyl ether	99		99		67-130	0		30
trans-1,4-Dichloro-2-butene	70		73		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		107		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	94		95		70-130
Dibromofluoromethane	105		106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-04 Batch: WG1770927-3 WG1770927-4								
Methylene chloride	90		94		70-130	4		30
1,1-Dichloroethane	97		100		70-130	3		30
Chloroform	98		102		70-130	4		30
Carbon tetrachloride	100		103		70-130	3		30
1,2-Dichloropropane	92		95		70-130	3		30
Dibromochloromethane	96		98		70-130	2		30
1,1,2-Trichloroethane	96		98		70-130	2		30
Tetrachloroethene	101		103		70-130	2		30
Chlorobenzene	96		99		70-130	3		30
Trichlorofluoromethane	97		108		70-139	11		30
1,2-Dichloroethane	99		102		70-130	3		30
1,1,1-Trichloroethane	102		105		70-130	3		30
Bromodichloromethane	96		100		70-130	4		30
trans-1,3-Dichloropropene	99		102		70-130	3		30
cis-1,3-Dichloropropene	96		100		70-130	4		30
1,1-Dichloropropene	100		103		70-130	3		30
Bromoform	92		97		70-130	5		30
1,1,2,2-Tetrachloroethane	92		95		70-130	3		30
Benzene	95		98		70-130	3		30
Toluene	94		95		70-130	1		30
Ethylbenzene	98		100		70-130	2		30
Chloromethane	88		90		52-130	2		30
Bromomethane	111		117		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-04 Batch: WG1770927-3 WG1770927-4								
Vinyl chloride	92		95		67-130	3		30
Chloroethane	96		100		50-151	4		30
1,1-Dichloroethene	97		100		65-135	3		30
trans-1,2-Dichloroethene	96		100		70-130	4		30
Trichloroethene	100		102		70-130	2		30
1,2-Dichlorobenzene	96		99		70-130	3		30
1,3-Dichlorobenzene	97		99		70-130	2		30
1,4-Dichlorobenzene	97		100		70-130	3		30
Methyl tert butyl ether	94		99		66-130	5		30
p/m-Xylene	97		99		70-130	2		30
o-Xylene	97		99		70-130	2		30
cis-1,2-Dichloroethene	95		99		70-130	4		30
Dibromomethane	93		97		70-130	4		30
Styrene	96		97		70-130	1		30
Dichlorodifluoromethane	89		92		30-146	3		30
Acetone	90		94		54-140	4		30
Carbon disulfide	96		100		59-130	4		30
2-Butanone	94		97		70-130	3		30
Vinyl acetate	88		94		70-130	7		30
4-Methyl-2-pentanone	89		90		70-130	1		30
1,2,3-Trichloropropane	93		95		68-130	2		30
2-Hexanone	83		85		70-130	2		30
Bromochloromethane	94		97		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-04 Batch: WG1770927-3 WG1770927-4								
2,2-Dichloropropane	101		104		70-130	3		30
1,2-Dibromoethane	97		100		70-130	3		30
1,3-Dichloropropane	97		98		69-130	1		30
1,1,1,2-Tetrachloroethane	97		98		70-130	1		30
Bromobenzene	96		99		70-130	3		30
n-Butylbenzene	102		104		70-130	2		30
sec-Butylbenzene	99		101		70-130	2		30
tert-Butylbenzene	98		101		70-130	3		30
o-Chlorotoluene	98		100		70-130	2		30
p-Chlorotoluene	99		101		70-130	2		30
1,2-Dibromo-3-chloropropane	86		89		68-130	3		30
Hexachlorobutadiene	100		102		67-130	2		30
Isopropylbenzene	99		101		70-130	2		30
p-Isopropyltoluene	100		102		70-130	2		30
Naphthalene	92		95		70-130	3		30
Acrylonitrile	89		91		70-130	2		30
n-Propylbenzene	99		102		70-130	3		30
1,2,3-Trichlorobenzene	97		100		70-130	3		30
1,2,4-Trichlorobenzene	99		102		70-130	3		30
1,3,5-Trimethylbenzene	99		101		70-130	2		30
1,2,4-Trimethylbenzene	99		102		70-130	3		30
1,4-Dioxane	92		98		65-136	6		30
p-Diethylbenzene	100		103		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-04 Batch: WG1770927-3 WG1770927-4								
p-Ethyltoluene	99		102		70-130	3		30
1,2,4,5-Tetramethylbenzene	100		102		70-130	2		30
Ethyl ether	95		100		67-130	5		30
trans-1,4-Dichloro-2-butene	92		96		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	102		100		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	99		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1770928-3 WG1770928-4								
Methylene chloride	90		94		70-130	4		30
1,1-Dichloroethane	97		100		70-130	3		30
Chloroform	98		102		70-130	4		30
Carbon tetrachloride	100		103		70-130	3		30
1,2-Dichloropropane	92		95		70-130	3		30
Dibromochloromethane	96		98		70-130	2		30
1,1,2-Trichloroethane	96		98		70-130	2		30
Tetrachloroethene	101		103		70-130	2		30
Chlorobenzene	96		99		70-130	3		30
Trichlorofluoromethane	97		108		70-139	11		30
1,2-Dichloroethane	99		102		70-130	3		30
1,1,1-Trichloroethane	102		105		70-130	3		30
Bromodichloromethane	96		100		70-130	4		30
trans-1,3-Dichloropropene	99		102		70-130	3		30
cis-1,3-Dichloropropene	96		100		70-130	4		30
1,1-Dichloropropene	100		103		70-130	3		30
Bromoform	92		97		70-130	5		30
1,1,2,2-Tetrachloroethane	92		95		70-130	3		30
Benzene	95		98		70-130	3		30
Toluene	94		95		70-130	1		30
Ethylbenzene	98		100		70-130	2		30
Chloromethane	88		90		52-130	2		30
Bromomethane	111		117		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1770928-3 WG1770928-4								
Vinyl chloride	92		95		67-130	3		30
Chloroethane	96		100		50-151	4		30
1,1-Dichloroethene	97		100		65-135	3		30
trans-1,2-Dichloroethene	96		100		70-130	4		30
Trichloroethene	100		102		70-130	2		30
1,2-Dichlorobenzene	96		99		70-130	3		30
1,3-Dichlorobenzene	97		99		70-130	2		30
1,4-Dichlorobenzene	97		100		70-130	3		30
Methyl tert butyl ether	94		99		66-130	5		30
p/m-Xylene	97		99		70-130	2		30
o-Xylene	97		99		70-130	2		30
cis-1,2-Dichloroethene	95		99		70-130	4		30
Dibromomethane	93		97		70-130	4		30
Styrene	96		97		70-130	1		30
Dichlorodifluoromethane	89		92		30-146	3		30
Acetone	90		94		54-140	4		30
Carbon disulfide	96		100		59-130	4		30
2-Butanone	94		97		70-130	3		30
Vinyl acetate	88		94		70-130	7		30
4-Methyl-2-pentanone	89		90		70-130	1		30
1,2,3-Trichloropropane	93		95		68-130	2		30
2-Hexanone	83		85		70-130	2		30
Bromochloromethane	94		97		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1770928-3 WG1770928-4								
2,2-Dichloropropane	101		104		70-130	3		30
1,2-Dibromoethane	97		100		70-130	3		30
1,3-Dichloropropane	97		98		69-130	1		30
1,1,1,2-Tetrachloroethane	97		98		70-130	1		30
Bromobenzene	96		99		70-130	3		30
n-Butylbenzene	102		104		70-130	2		30
sec-Butylbenzene	99		101		70-130	2		30
tert-Butylbenzene	98		101		70-130	3		30
o-Chlorotoluene	98		100		70-130	2		30
p-Chlorotoluene	99		101		70-130	2		30
1,2-Dibromo-3-chloropropane	86		89		68-130	3		30
Hexachlorobutadiene	100		102		67-130	2		30
Isopropylbenzene	99		101		70-130	2		30
p-Isopropyltoluene	100		102		70-130	2		30
Naphthalene	92		95		70-130	3		30
Acrylonitrile	89		91		70-130	2		30
n-Propylbenzene	99		102		70-130	3		30
1,2,3-Trichlorobenzene	97		100		70-130	3		30
1,2,4-Trichlorobenzene	99		102		70-130	3		30
1,3,5-Trimethylbenzene	99		101		70-130	2		30
1,2,4-Trimethylbenzene	99		102		70-130	3		30
1,4-Dioxane	92		98		65-136	6		30
p-Diethylbenzene	100		103		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1770928-3 WG1770928-4								
p-Ethyltoluene	99		102		70-130	3		30
1,2,4,5-Tetramethylbenzene	100		102		70-130	2		30
Ethyl ether	95		100		67-130	5		30
trans-1,4-Dichloro-2-butene	92		96		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	102		100		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	99		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG1771090-3 WG1771090-4								
Methylene chloride	92		91		70-130	1		30
1,1-Dichloroethane	100		98		70-130	2		30
Chloroform	101		98		70-130	3		30
Carbon tetrachloride	101		99		70-130	2		30
1,2-Dichloropropane	100		97		70-130	3		30
Dibromochloromethane	97		96		70-130	1		30
1,1,2-Trichloroethane	94		93		70-130	1		30
Tetrachloroethene	105		102		70-130	3		30
Chlorobenzene	98		98		70-130	0		30
Trichlorofluoromethane	102		99		70-139	3		30
1,2-Dichloroethane	95		93		70-130	2		30
1,1,1-Trichloroethane	104		101		70-130	3		30
Bromodichloromethane	98		97		70-130	1		30
trans-1,3-Dichloropropene	97		97		70-130	0		30
cis-1,3-Dichloropropene	103		101		70-130	2		30
1,1-Dichloropropene	105		102		70-130	3		30
Bromoform	93		94		70-130	1		30
1,1,2,2-Tetrachloroethane	90		91		70-130	1		30
Benzene	100		99		70-130	1		30
Toluene	98		97		70-130	1		30
Ethylbenzene	100		99		70-130	1		30
Chloromethane	96		92		52-130	4		30
Bromomethane	103		100		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG1771090-3 WG1771090-4								
Vinyl chloride	99		95		67-130	4		30
Chloroethane	101		99		50-151	2		30
1,1-Dichloroethene	104		101		65-135	3		30
trans-1,2-Dichloroethene	104		101		70-130	3		30
Trichloroethene	104		101		70-130	3		30
1,2-Dichlorobenzene	98		96		70-130	2		30
1,3-Dichlorobenzene	100		99		70-130	1		30
1,4-Dichlorobenzene	97		96		70-130	1		30
Methyl tert butyl ether	94		93		66-130	1		30
p/m-Xylene	100		99		70-130	1		30
o-Xylene	99		98		70-130	1		30
cis-1,2-Dichloroethene	99		98		70-130	1		30
Dibromomethane	95		96		70-130	1		30
Styrene	102		100		70-130	2		30
Dichlorodifluoromethane	93		90		30-146	3		30
Acetone	75		76		54-140	1		30
Carbon disulfide	98		95		59-130	3		30
2-Butanone	73		81		70-130	10		30
Vinyl acetate	85		87		70-130	2		30
4-Methyl-2-pentanone	91		92		70-130	1		30
1,2,3-Trichloropropane	89		88		68-130	1		30
2-Hexanone	84		79		70-130	6		30
Bromochloromethane	99		98		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG1771090-3 WG1771090-4								
2,2-Dichloropropane	104		99		70-130	5		30
1,2-Dibromoethane	98		98		70-130	0		30
1,3-Dichloropropane	94		94		69-130	0		30
1,1,1,2-Tetrachloroethane	99		97		70-130	2		30
Bromobenzene	98		98		70-130	0		30
n-Butylbenzene	101		100		70-130	1		30
sec-Butylbenzene	101		99		70-130	2		30
tert-Butylbenzene	102		99		70-130	3		30
o-Chlorotoluene	99		98		70-130	1		30
p-Chlorotoluene	98		97		70-130	1		30
1,2-Dibromo-3-chloropropane	91		91		68-130	0		30
Hexachlorobutadiene	107		105		67-130	2		30
Isopropylbenzene	101		99		70-130	2		30
p-Isopropyltoluene	102		100		70-130	2		30
Naphthalene	93		93		70-130	0		30
Acrylonitrile	80		82		70-130	2		30
n-Propylbenzene	102		101		70-130	1		30
1,2,3-Trichlorobenzene	101		101		70-130	0		30
1,2,4-Trichlorobenzene	104		103		70-130	1		30
1,3,5-Trimethylbenzene	98		96		70-130	2		30
1,2,4-Trimethylbenzene	99		98		70-130	1		30
1,4-Dioxane	97		98		65-136	1		30
p-Diethylbenzene	102		100		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG1771090-3 WG1771090-4								
p-Ethyltoluene	102		100		70-130	2		30
1,2,4,5-Tetramethylbenzene	101		98		70-130	3		30
Ethyl ether	96		96		67-130	0		30
trans-1,4-Dichloro-2-butene	98		94		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	101		99		70-130
Dibromofluoromethane	99		98		70-130

SEMIVOLATILES



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-01
 Client ID: SW-09 (5')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 14:18
 Analyst: JW
 Percent Solids: 86%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.529	0.104	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.06	0.401	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.06	0.431	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.12	0.550	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.12	0.773	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		60		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		68		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		72		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		56		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		48		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-01
Client ID: SW-09 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 14:34
Analyst: RS
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND	ng/g	0.529	0.024	1	
Perfluoropentanoic Acid (PFPeA)	ND	ng/g	0.529	0.049	1	
Perfluorobutanesulfonic Acid (PFBS)	ND	ng/g	0.264	0.041	1	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ng/g	1.06	0.068	1	
Perfluorohexanoic Acid (PFHxA)	ND	ng/g	0.529	0.056	1	
Perfluoropentanesulfonic Acid (PFPeS)	ND	ng/g	1.06	0.088	1	
Perfluoroheptanoic Acid (PFHpA)	ND	ng/g	0.264	0.048	1	
Perfluorohexanesulfonic Acid (PFHxS)	ND	ng/g	0.264	0.064	1	
Perfluoroctanoic Acid (PFOA)	ND	ng/g	0.264	0.044	1	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ng/g	0.529	0.190	1	
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ng/g	0.529	0.144	1	
Perfluorononanoic Acid (PFNA)	ND	ng/g	0.264	0.079	1	
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/g	0.264	0.138	1	
Perfluorodecanoic Acid (PFDA)	ND	ng/g	0.264	0.071	1	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ng/g	0.529	0.304	1	
Perfluorononanesulfonic Acid (PFNS)	ND	ng/g	1.06	0.316	1	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ng/g	0.529	0.213	1	
Perfluoroundecanoic Acid (PFUnA)	ND	ng/g	0.529	0.050	1	
Perfluorodecanesulfonic Acid (PFDS)	ND	ng/g	0.529	0.162	1	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ng/g	0.529	0.089	1	
Perfluorododecanoic Acid (PFDoA)	ND	ng/g	0.529	0.074	1	
Perfluorotridecanoic Acid (PFTrDA)	ND	ng/g	0.529	0.216	1	
Perfluorotetradecanoic Acid (PFTA)	ND	ng/g	0.529	0.057	1	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ng/g	2.64	1.79	1	
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ng/g	1.06	0.044	1	
Perfluorohexadecanoic Acid (PFHxDA)	ND	ng/g	2.64	0.127	1	
Perfluoroctadecanoic Acid (PFODA)	ND	ng/g	2.64	0.181	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-01	Date Collected:	04/19/23 15:00
Client ID:	SW-09 (5')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.06	0.091	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.06	0.291	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.06	0.040	1
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	1.06	0.041	1
Perfluoropropane Sulfonic Acid (PFPs)	ND		ng/g	1.06	0.212	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.06	0.159	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.06	0.178	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.06	0.236	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.06	0.160	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	62	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	83		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	109		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	76		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	82		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	167	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	81		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	71	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	228	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	108		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	75		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	137		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	60		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	80		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	210	Q	50-150



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-01 RE\RD
Client ID: SW-09 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/27/23 17:30
Analyst: JG
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 04/26/23 11:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	950		ug/kg	760	99.	5
1,2,4-Trichlorobenzene	ND		ug/kg	960	110	5
Hexachlorobenzene	ND		ug/kg	570	110	5
Bis(2-chloroethyl)ether	ND		ug/kg	860	130	5
2-Chloronaphthalene	ND		ug/kg	960	95.	5
1,2-Dichlorobenzene	ND		ug/kg	960	170	5
1,3-Dichlorobenzene	ND		ug/kg	960	160	5
1,4-Dichlorobenzene	ND		ug/kg	960	170	5
3,3'-Dichlorobenzidine	ND		ug/kg	960	250	5
2,4-Dinitrotoluene	ND		ug/kg	960	190	5
2,6-Dinitrotoluene	ND		ug/kg	960	160	5
Fluoranthene	8600		ug/kg	570	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	960	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	960	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	96.	5
Hexachlorobutadiene	ND		ug/kg	960	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	860	5
Hexachloroethane	ND		ug/kg	760	150	5
Isophorone	ND		ug/kg	860	120	5
Naphthalene	1300		ug/kg	960	120	5
Nitrobenzene	ND		ug/kg	860	140	5
NDPA/DPA	ND		ug/kg	760	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	960	150	5
Bis(2-ethylhexyl)phthalate	570	J	ug/kg	960	330	5
Butyl benzyl phthalate	ND		ug/kg	960	240	5
Di-n-butylphthalate	ND		ug/kg	960	180	5
Di-n-octylphthalate	ND		ug/kg	960	320	5



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-01	RE\RD	Date Collected:	04/19/23 15:00
Client ID:	SW-09 (5')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	960	88.	5
Dimethyl phthalate	ND		ug/kg	960	200	5
Benzo(a)anthracene	3000		ug/kg	570	110	5
Benzo(a)pyrene	3200		ug/kg	760	230	5
Benzo(b)fluoranthene	3400		ug/kg	570	160	5
Benzo(k)fluoranthene	1200		ug/kg	570	150	5
Chrysene	2600		ug/kg	570	99.	5
Acenaphthylene	850		ug/kg	760	150	5
Anthracene	2100		ug/kg	570	190	5
Benzo(ghi)perylene	1700		ug/kg	760	110	5
Fluorene	1400		ug/kg	960	93.	5
Phenanthrene	10000		ug/kg	570	120	5
Dibenzo(a,h)anthracene	390	J	ug/kg	570	110	5
Indeno(1,2,3-cd)pyrene	1900		ug/kg	760	130	5
Pyrene	7100		ug/kg	570	95.	5
Biphenyl	130	J	ug/kg	2200	120	5
4-Chloroaniline	ND		ug/kg	960	170	5
2-Nitroaniline	ND		ug/kg	960	180	5
3-Nitroaniline	ND		ug/kg	960	180	5
4-Nitroaniline	ND		ug/kg	960	400	5
Dibenzofuran	870	J	ug/kg	960	90.	5
2-Methylnaphthalene	4200		ug/kg	1100	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	960	100	5
Acetophenone	ND		ug/kg	960	120	5
2,4,6-Trichlorophenol	ND		ug/kg	570	180	5
p-Chloro-m-cresol	ND		ug/kg	960	140	5
2-Chlorophenol	ND		ug/kg	960	110	5
2,4-Dichlorophenol	ND		ug/kg	860	150	5
2,4-Dimethylphenol	ND		ug/kg	960	320	5
2-Nitrophenol	ND		ug/kg	2100	360	5
4-Nitrophenol	ND		ug/kg	1300	390	5
2,4-Dinitrophenol	ND		ug/kg	4600	440	5
4,6-Dinitro-o-cresol	ND		ug/kg	2500	460	5
Pentachlorophenol	ND		ug/kg	760	210	5
Phenol	ND		ug/kg	960	140	5
2-Methylphenol	ND		ug/kg	960	150	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	150	5



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-01	RE\RD	Date Collected:	04/19/23 15:00
Client ID:	SW-09 (5')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	960	180	5
Benzoic Acid	ND		ug/kg	3100	970	5
Benzyl Alcohol	ND		ug/kg	960	290	5
Carbazole	980		ug/kg	960	93.	5
1,4-Dioxane	ND		ug/kg	140	44.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	13	Q	25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	8	Q	10-136
4-Terphenyl-d14	83		18-120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-01 D
Client ID: SW-09 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/23 08:55
Analyst: IM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 13:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	900	ug/kg	770	100	5	
1,2,4-Trichlorobenzene	ND	ug/kg	960	110	5	
Hexachlorobenzene	ND	ug/kg	580	110	5	
Bis(2-chloroethyl)ether	ND	ug/kg	870	130	5	
2-Chloronaphthalene	ND	ug/kg	960	96.	5	
1,2-Dichlorobenzene	ND	ug/kg	960	170	5	
1,3-Dichlorobenzene	ND	ug/kg	960	170	5	
1,4-Dichlorobenzene	ND	ug/kg	960	170	5	
3,3'-Dichlorobenzidine	ND	ug/kg	960	260	5	
2,4-Dinitrotoluene	ND	ug/kg	960	190	5	
2,6-Dinitrotoluene	ND	ug/kg	960	160	5	
Fluoranthene	2200	ug/kg	580	110	5	
4-Chlorophenyl phenyl ether	ND	ug/kg	960	100	5	
4-Bromophenyl phenyl ether	ND	ug/kg	960	150	5	
Bis(2-chloroisopropyl)ether	ND	ug/kg	1200	160	5	
Bis(2-chloroethoxy)methane	ND	ug/kg	1000	97.	5	
Hexachlorobutadiene	ND	ug/kg	960	140	5	
Hexachlorocyclopentadiene	ND	ug/kg	2800	870	5	
Hexachloroethane	ND	ug/kg	770	160	5	
Isophorone	ND	ug/kg	870	120	5	
Naphthalene	3200	ug/kg	960	120	5	
Nitrobenzene	ND	ug/kg	870	140	5	
NDPA/DPA	ND	ug/kg	770	110	5	
n-Nitrosodi-n-propylamine	ND	ug/kg	960	150	5	
Bis(2-ethylhexyl)phthalate	1500	ug/kg	960	330	5	
Butyl benzyl phthalate	ND	ug/kg	960	240	5	
Di-n-butylphthalate	ND	ug/kg	960	180	5	
Di-n-octylphthalate	ND	ug/kg	960	330	5	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-01	D	Date Collected:	04/19/23 15:00
Client ID:	SW-09 (5')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	960	89.	5
Dimethyl phthalate	ND		ug/kg	960	200	5
Benzo(a)anthracene	1200		ug/kg	580	110	5
Benzo(a)pyrene	1000		ug/kg	770	240	5
Benzo(b)fluoranthene	1100		ug/kg	580	160	5
Benzo(k)fluoranthene	440	J	ug/kg	580	150	5
Chrysene	1100		ug/kg	580	100	5
Acenaphthylene	ND		ug/kg	770	150	5
Anthracene	800		ug/kg	580	190	5
Benzo(ghi)perylene	600	J	ug/kg	770	110	5
Fluorene	1200		ug/kg	960	94.	5
Phenanthrene	3700		ug/kg	580	120	5
Dibenzo(a,h)anthracene	120	J	ug/kg	580	110	5
Indeno(1,2,3-cd)pyrene	610	J	ug/kg	770	130	5
Pyrene	2000		ug/kg	580	96.	5
Biphenyl	ND		ug/kg	2200	120	5
4-Chloroaniline	ND		ug/kg	960	180	5
2-Nitroaniline	ND		ug/kg	960	190	5
3-Nitroaniline	ND		ug/kg	960	180	5
4-Nitroaniline	ND		ug/kg	960	400	5
Dibenzofuran	640	J	ug/kg	960	91.	5
2-Methylnaphthalene	13000		ug/kg	1200	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	960	100	5
Acetophenone	ND		ug/kg	960	120	5
2,4,6-Trichlorophenol	ND		ug/kg	580	180	5
p-Chloro-m-cresol	ND		ug/kg	960	140	5
2-Chlorophenol	ND		ug/kg	960	110	5
2,4-Dichlorophenol	ND		ug/kg	870	160	5
2,4-Dimethylphenol	ND		ug/kg	960	320	5
2-Nitrophenol	ND		ug/kg	2100	360	5
4-Nitrophenol	ND		ug/kg	1400	390	5
2,4-Dinitrophenol	ND		ug/kg	4600	450	5
4,6-Dinitro-o-cresol	ND		ug/kg	2500	460	5
Pentachlorophenol	ND		ug/kg	770	210	5
Phenol	ND		ug/kg	960	140	5
2-Methylphenol	ND		ug/kg	960	150	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	150	5



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-01	D	Date Collected:	04/19/23 15:00
Client ID:	SW-09 (5')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	960	180	5
Benzoic Acid	ND		ug/kg	3100	980	5
Benzyl Alcohol	ND		ug/kg	960	300	5
Carbazole	340	J	ug/kg	960	94.	5
1,4-Dioxane	ND		ug/kg	140	44.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	7	Q	25-120
Phenol-d6	28		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	4	Q	10-136
4-Terphenyl-d14	57		18-120

Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-02
 Client ID: SW-10 (5')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:05
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 14:24
 Analyst: JW
 Percent Solids: 78%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.636	0.124	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.27	0.482	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.27	0.517	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.54	0.661	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.54	0.928	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		57		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		60		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		64		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		49		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		46		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-02
Client ID: SW-10 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:05
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 14:51
Analyst: RS
Percent Solids: 78%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.636	0.029	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.636	0.059	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.318	0.050	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	1.27	0.082	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.636	0.067	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	1.27	0.106	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.318	0.057	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.318	0.077	1
Perfluoroctanoic Acid (PFOA)	ND		ng/g	0.318	0.053	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.636	0.228	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.636	0.174	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.318	0.095	1
Perfluorooctanesulfonic Acid (PFOS)	0.197	J	ng/g	0.318	0.165	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.318	0.085	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.636	0.365	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	1.27	0.380	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.636	0.256	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.636	0.060	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.636	0.194	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.636	0.107	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.636	0.089	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.636	0.260	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.636	0.069	1
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND		ng/g	3.18	2.15	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	1.27	0.053	1
Perfluorohexadecanoic Acid (PFHxDA)	ND		ng/g	3.18	0.152	1
Perfluoroctadecanoic Acid (PFODA)	ND		ng/g	3.18	0.217	1



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-02
Client ID: SW-10 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:05
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.27	0.109	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.27	0.350	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.27	0.048	1
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	1.27	0.049	1
Perfluoropropane Sulfonic Acid (PFPoS)	ND		ng/g	1.27	0.255	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.27	0.191	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.27	0.214	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.27	0.284	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.27	0.192	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	66	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	85		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	103		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	61	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	72	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	213	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	74		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	78	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	64	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	247	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	92		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	57	Q	61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	107		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	61		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	51		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	60		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	207	Q	50-150

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-02 D
Client ID: SW-10 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:05
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/23 09:43
Analyst: IM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 13:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	280	J	ug/kg	840	110	5
1,2,4-Trichlorobenzene	ND		ug/kg	1000	120	5
Hexachlorobenzene	ND		ug/kg	630	120	5
Bis(2-chloroethyl)ether	ND		ug/kg	940	140	5
2-Chloronaphthalene	ND		ug/kg	1000	100	5
1,2-Dichlorobenzene	ND		ug/kg	1000	190	5
1,3-Dichlorobenzene	ND		ug/kg	1000	180	5
1,4-Dichlorobenzene	ND		ug/kg	1000	180	5
3,3'-Dichlorobenzidine	ND		ug/kg	1000	280	5
2,4-Dinitrotoluene	ND		ug/kg	1000	210	5
2,6-Dinitrotoluene	ND		ug/kg	1000	180	5
Fluoranthene	1200		ug/kg	630	120	5
4-Chlorophenyl phenyl ether	ND		ug/kg	1000	110	5
4-Bromophenyl phenyl ether	ND		ug/kg	1000	160	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	180	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1100	100	5
Hexachlorobutadiene	ND		ug/kg	1000	150	5
Hexachlorocyclopentadiene	ND		ug/kg	3000	950	5
Hexachloroethane	ND		ug/kg	840	170	5
Isophorone	ND		ug/kg	940	140	5
Naphthalene	ND		ug/kg	1000	130	5
Nitrobenzene	ND		ug/kg	940	150	5
NDPA/DPA	ND		ug/kg	840	120	5
n-Nitrosodi-n-propylamine	ND		ug/kg	1000	160	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1000	360	5
Butyl benzyl phthalate	ND		ug/kg	1000	260	5
Di-n-butylphthalate	ND		ug/kg	1000	200	5
Di-n-octylphthalate	ND		ug/kg	1000	360	5



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-02	D	Date Collected:	04/19/23 15:05
Client ID:	SW-10 (5')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	1000	97.	5
Dimethyl phthalate	ND		ug/kg	1000	220	5
Benzo(a)anthracene	910		ug/kg	630	120	5
Benzo(a)pyrene	ND		ug/kg	840	260	5
Benzo(b)fluoranthene	ND		ug/kg	630	180	5
Benzo(k)fluoranthene	ND		ug/kg	630	170	5
Chrysene	950		ug/kg	630	110	5
Acenaphthylene	ND		ug/kg	840	160	5
Anthracene	ND		ug/kg	630	200	5
Benzo(ghi)perylene	550	J	ug/kg	840	120	5
Fluorene	420	J	ug/kg	1000	100	5
Phenanthrene	800		ug/kg	630	130	5
Dibenzo(a,h)anthracene	ND		ug/kg	630	120	5
Indeno(1,2,3-cd)pyrene	550	J	ug/kg	840	140	5
Pyrene	1800		ug/kg	630	100	5
Biphenyl	ND		ug/kg	2400	140	5
4-Chloroaniline	ND		ug/kg	1000	190	5
2-Nitroaniline	ND		ug/kg	1000	200	5
3-Nitroaniline	ND		ug/kg	1000	200	5
4-Nitroaniline	ND		ug/kg	1000	430	5
Dibenzofuran	ND		ug/kg	1000	99.	5
2-Methylnaphthalene	280	J	ug/kg	1200	130	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1000	110	5
Acetophenone	ND		ug/kg	1000	130	5
2,4,6-Trichlorophenol	ND		ug/kg	630	200	5
p-Chloro-m-cresol	ND		ug/kg	1000	160	5
2-Chlorophenol	ND		ug/kg	1000	120	5
2,4-Dichlorophenol	ND		ug/kg	940	170	5
2,4-Dimethylphenol	ND		ug/kg	1000	340	5
2-Nitrophenol	ND		ug/kg	2200	390	5
4-Nitrophenol	ND		ug/kg	1500	430	5
2,4-Dinitrophenol	ND		ug/kg	5000	490	5
4,6-Dinitro-o-cresol	ND		ug/kg	2700	500	5
Pentachlorophenol	ND		ug/kg	840	230	5
Phenol	ND		ug/kg	1000	160	5
2-Methylphenol	ND		ug/kg	1000	160	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1500	160	5



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-02	D	Date Collected:	04/19/23 15:05
Client ID:	SW-10 (5')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	1000	200	5
Benzoic Acid	ND		ug/kg	3400	1000	5
Benzyl Alcohol	ND		ug/kg	1000	320	5
Carbazole	ND		ug/kg	1000	100	5
1,4-Dioxane	ND		ug/kg	160	48.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	53		18-120

Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-03
 Client ID: SW-11 (5')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:10
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 14:30
 Analyst: JW
 Percent Solids: 87%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.520	0.102	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.04	0.394	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.04	0.423	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.08	0.541	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.08	0.759	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		64		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		63		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		69		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		42		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		44		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-03
Client ID: SW-11 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:10
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 15:07
Analyst: RS
Percent Solids: 87%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND	ng/g	0.520	0.024	1	
Perfluoropentanoic Acid (PFPeA)	ND	ng/g	0.520	0.048	1	
Perfluorobutanesulfonic Acid (PFBS)	ND	ng/g	0.260	0.041	1	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ng/g	1.04	0.067	1	
Perfluorohexanoic Acid (PFHxA)	ND	ng/g	0.520	0.055	1	
Perfluoropentanesulfonic Acid (PFPeS)	ND	ng/g	1.04	0.087	1	
Perfluoroheptanoic Acid (PFHpA)	ND	ng/g	0.260	0.047	1	
Perfluorohexanesulfonic Acid (PFHxS)	ND	ng/g	0.260	0.063	1	
Perfluoroctanoic Acid (PFOA)	ND	ng/g	0.260	0.044	1	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ng/g	0.520	0.187	1	
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ng/g	0.520	0.142	1	
Perfluorononanoic Acid (PFNA)	ND	ng/g	0.260	0.078	1	
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/g	0.260	0.135	1	
Perfluorodecanoic Acid (PFDA)	ND	ng/g	0.260	0.070	1	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ng/g	0.520	0.298	1	
Perfluorononanesulfonic Acid (PFNS)	ND	ng/g	1.04	0.311	1	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ng/g	0.520	0.210	1	
Perfluoroundecanoic Acid (PFUnA)	ND	ng/g	0.520	0.049	1	
Perfluorodecanesulfonic Acid (PFDS)	ND	ng/g	0.520	0.159	1	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ng/g	0.520	0.088	1	
Perfluorododecanoic Acid (PFDoA)	ND	ng/g	0.520	0.073	1	
Perfluorotridecanoic Acid (PFTrDA)	ND	ng/g	0.520	0.213	1	
Perfluorotetradecanoic Acid (PFTA)	ND	ng/g	0.520	0.056	1	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ng/g	2.60	1.76	1	
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ng/g	1.04	0.043	1	
Perfluorohexadecanoic Acid (PFHxDA)	ND	ng/g	2.60	0.125	1	
Perfluoroctadecanoic Acid (PFODA)	ND	ng/g	2.60	0.178	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-03	Date Collected:	04/19/23 15:10
Client ID:	SW-11 (5')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.04	0.090	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.04	0.286	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.04	0.039	1
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	1.04	0.040	1
Perfluoropropane Sulfonic Acid (PFPsS)	ND		ng/g	1.04	0.208	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.04	0.156	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.04	0.175	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.04	0.232	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.04	0.158	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	63	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	81		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	113		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	67	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	84		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	210	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	101		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	76		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	290	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	137	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	67		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	152	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	71		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	53		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	72		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	290	Q	50-150

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-03 D
Client ID: SW-11 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:10
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/23 06:06
Analyst: IM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 13:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	570	J	ug/kg	760	98.	5
1,2,4-Trichlorobenzene	ND		ug/kg	940	110	5
Hexachlorobenzene	ND		ug/kg	570	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	850	130	5
2-Chloronaphthalene	ND		ug/kg	940	94.	5
1,2-Dichlorobenzene	ND		ug/kg	940	170	5
1,3-Dichlorobenzene	ND		ug/kg	940	160	5
1,4-Dichlorobenzene	ND		ug/kg	940	160	5
3,3'-Dichlorobenzidine	ND		ug/kg	940	250	5
2,4-Dinitrotoluene	ND		ug/kg	940	190	5
2,6-Dinitrotoluene	ND		ug/kg	940	160	5
Fluoranthene	110	J	ug/kg	570	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	940	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	940	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	95.	5
Hexachlorobutadiene	ND		ug/kg	940	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	860	5
Hexachloroethane	ND		ug/kg	760	150	5
Isophorone	ND		ug/kg	850	120	5
Naphthalene	ND		ug/kg	940	120	5
Nitrobenzene	ND		ug/kg	850	140	5
NDPA/DPA	ND		ug/kg	760	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	940	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	940	330	5
Butyl benzyl phthalate	ND		ug/kg	940	240	5
Di-n-butylphthalate	ND		ug/kg	940	180	5
Di-n-octylphthalate	ND		ug/kg	940	320	5



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-03	D	Date Collected:	04/19/23 15:10
Client ID:	SW-11 (5')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	940	87.	5
Dimethyl phthalate	ND		ug/kg	940	200	5
Benzo(a)anthracene	110	J	ug/kg	570	110	5
Benzo(a)pyrene	ND		ug/kg	760	230	5
Benzo(b)fluoranthene	ND		ug/kg	570	160	5
Benzo(k)fluoranthene	ND		ug/kg	570	150	5
Chrysene	170	J	ug/kg	570	98.	5
Acenaphthylene	220	J	ug/kg	760	140	5
Anthracene	ND		ug/kg	570	180	5
Benzo(ghi)perylene	ND		ug/kg	760	110	5
Fluorene	960		ug/kg	940	92.	5
Phenanthrene	530	J	ug/kg	570	110	5
Dibenzo(a,h)anthracene	ND		ug/kg	570	110	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	760	130	5
Pyrene	560	J	ug/kg	570	94.	5
Biphenyl	ND		ug/kg	2200	120	5
4-Chloroaniline	ND		ug/kg	940	170	5
2-Nitroaniline	ND		ug/kg	940	180	5
3-Nitroaniline	ND		ug/kg	940	180	5
4-Nitroaniline	ND		ug/kg	940	390	5
Dibenzofuran	ND		ug/kg	940	89.	5
2-Methylnaphthalene	ND		ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	940	99.	5
Acetophenone	ND		ug/kg	940	120	5
2,4,6-Trichlorophenol	ND		ug/kg	570	180	5
p-Chloro-m-cresol	ND		ug/kg	940	140	5
2-Chlorophenol	ND		ug/kg	940	110	5
2,4-Dichlorophenol	ND		ug/kg	850	150	5
2,4-Dimethylphenol	ND		ug/kg	940	310	5
2-Nitrophenol	ND		ug/kg	2000	360	5
4-Nitrophenol	ND		ug/kg	1300	380	5
2,4-Dinitrophenol	ND		ug/kg	4500	440	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	450	5
Pentachlorophenol	ND		ug/kg	760	210	5
Phenol	ND		ug/kg	940	140	5
2-Methylphenol	ND		ug/kg	940	150	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	150	5



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-03	D	Date Collected:	04/19/23 15:10
Client ID:	SW-11 (5')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	940	180	5
Benzoic Acid	ND		ug/kg	3100	960	5
Benzyl Alcohol	ND		ug/kg	940	290	5
Carbazole	ND		ug/kg	940	92.	5
1,4-Dioxane	ND		ug/kg	140	43.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	55		18-120

Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-04
 Client ID: SW-12 (5')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:15
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 14:37
 Analyst: JW
 Percent Solids: 82%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.596	0.117	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.19	0.452	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.19	0.485	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.38	0.620	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.38	0.871	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		60		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		68		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		77		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		55		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		64		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-04
Client ID: SW-12 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:15
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 15:23
Analyst: RS
Percent Solids: 82%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND	ng/g	0.596	0.027	1	
Perfluoropentanoic Acid (PFPeA)	ND	ng/g	0.596	0.055	1	
Perfluorobutanesulfonic Acid (PFBS)	ND	ng/g	0.298	0.047	1	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ng/g	1.19	0.077	1	
Perfluorohexanoic Acid (PFHxA)	ND	ng/g	0.596	0.063	1	
Perfluoropentanesulfonic Acid (PFPeS)	ND	ng/g	1.19	0.100	1	
Perfluoroheptanoic Acid (PFHpA)	ND	ng/g	0.298	0.054	1	
Perfluorohexanesulfonic Acid (PFHxS)	ND	ng/g	0.298	0.072	1	
Perfluoroctanoic Acid (PFOA)	ND	ng/g	0.298	0.050	1	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ng/g	0.596	0.214	1	
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ng/g	0.596	0.163	1	
Perfluorononanoic Acid (PFNA)	ND	ng/g	0.298	0.089	1	
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/g	0.298	0.155	1	
Perfluorodecanoic Acid (PFDA)	ND	ng/g	0.298	0.080	1	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ng/g	0.596	0.342	1	
Perfluorononanesulfonic Acid (PFNS)	ND	ng/g	1.19	0.357	1	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ng/g	0.596	0.240	1	
Perfluoroundecanoic Acid (PFUnA)	ND	ng/g	0.596	0.056	1	
Perfluorodecanesulfonic Acid (PFDS)	ND	ng/g	0.596	0.182	1	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ng/g	0.596	0.101	1	
Perfluorododecanoic Acid (PFDoA)	ND	ng/g	0.596	0.084	1	
Perfluorotridecanoic Acid (PFTrDA)	ND	ng/g	0.596	0.244	1	
Perfluorotetradecanoic Acid (PFTA)	ND	ng/g	0.596	0.064	1	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ng/g	2.98	2.02	1	
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ng/g	1.19	0.049	1	
Perfluorohexadecanoic Acid (PFHxDA)	ND	ng/g	2.98	0.143	1	
Perfluoroctadecanoic Acid (PFODA)	ND	ng/g	2.98	0.204	1	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-04
Client ID: SW-12 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:15
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.19	0.102	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.19	0.328	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.19	0.045	1
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	1.19	0.046	1
Perfluoropropane Sulfonic Acid (PFPoS)	ND		ng/g	1.19	0.239	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.19	0.179	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.19	0.200	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.19	0.266	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.19	0.181	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	68	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	83		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	104		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	68	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	84		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	157	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	82		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	69	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	215	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	102		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	73		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	127		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	90		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	57		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	82		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	254	Q	50-150

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-04 D
Client ID: SW-12 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:15
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/23 08:31
Analyst: IM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 13:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	500	J	ug/kg	810	100	5
1,2,4-Trichlorobenzene	ND		ug/kg	1000	120	5
Hexachlorobenzene	ND		ug/kg	600	110	5
Bis(2-chloroethyl)ether	ND		ug/kg	910	140	5
2-Chloronaphthalene	ND		ug/kg	1000	100	5
1,2-Dichlorobenzene	ND		ug/kg	1000	180	5
1,3-Dichlorobenzene	ND		ug/kg	1000	170	5
1,4-Dichlorobenzene	ND		ug/kg	1000	180	5
3,3'-Dichlorobenzidine	ND		ug/kg	1000	270	5
2,4-Dinitrotoluene	ND		ug/kg	1000	200	5
2,6-Dinitrotoluene	ND		ug/kg	1000	170	5
Fluoranthene	750		ug/kg	600	120	5
4-Chlorophenyl phenyl ether	ND		ug/kg	1000	110	5
4-Bromophenyl phenyl ether	ND		ug/kg	1000	150	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	170	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1100	100	5
Hexachlorobutadiene	ND		ug/kg	1000	150	5
Hexachlorocyclopentadiene	ND		ug/kg	2900	910	5
Hexachloroethane	ND		ug/kg	810	160	5
Isophorone	ND		ug/kg	910	130	5
Naphthalene	500	J	ug/kg	1000	120	5
Nitrobenzene	ND		ug/kg	910	150	5
NDPA/DPA	ND		ug/kg	810	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	1000	160	5
Bis(2-ethylhexyl)phthalate	1300		ug/kg	1000	350	5
Butyl benzyl phthalate	ND		ug/kg	1000	250	5
Di-n-butylphthalate	ND		ug/kg	1000	190	5
Di-n-octylphthalate	ND		ug/kg	1000	340	5



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-04	D	Date Collected:	04/19/23 15:15
Client ID:	SW-12 (5')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	1000	93.	5
Dimethyl phthalate	ND		ug/kg	1000	210	5
Benzo(a)anthracene	570	J	ug/kg	600	110	5
Benzo(a)pyrene	400	J	ug/kg	810	250	5
Benzo(b)fluoranthene	420	J	ug/kg	600	170	5
Benzo(k)fluoranthene	ND		ug/kg	600	160	5
Chrysene	630		ug/kg	600	100	5
Acenaphthylene	200	J	ug/kg	810	160	5
Anthracene	340	J	ug/kg	600	200	5
Benzo(ghi)perylene	270	J	ug/kg	810	120	5
Fluorene	1100		ug/kg	1000	98.	5
Phenanthrene	2100		ug/kg	600	120	5
Dibenzo(a,h)anthracene	ND		ug/kg	600	120	5
Indeno(1,2,3-cd)pyrene	240	J	ug/kg	810	140	5
Pyrene	1200		ug/kg	600	100	5
Biphenyl	ND		ug/kg	2300	130	5
4-Chloroaniline	ND		ug/kg	1000	180	5
2-Nitroaniline	ND		ug/kg	1000	190	5
3-Nitroaniline	ND		ug/kg	1000	190	5
4-Nitroaniline	ND		ug/kg	1000	420	5
Dibenzofuran	ND		ug/kg	1000	95.	5
2-Methylnaphthalene	9200		ug/kg	1200	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1000	100	5
Acetophenone	ND		ug/kg	1000	120	5
2,4,6-Trichlorophenol	ND		ug/kg	600	190	5
p-Chloro-m-cresol	ND		ug/kg	1000	150	5
2-Chlorophenol	ND		ug/kg	1000	120	5
2,4-Dichlorophenol	ND		ug/kg	910	160	5
2,4-Dimethylphenol	ND		ug/kg	1000	330	5
2-Nitrophenol	ND		ug/kg	2200	380	5
4-Nitrophenol	ND		ug/kg	1400	410	5
2,4-Dinitrophenol	ND		ug/kg	4800	470	5
4,6-Dinitro-o-cresol	ND		ug/kg	2600	480	5
Pentachlorophenol	ND		ug/kg	810	220	5
Phenol	ND		ug/kg	1000	150	5
2-Methylphenol	ND		ug/kg	1000	160	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	160	5



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-04	D	Date Collected:	04/19/23 15:15
Client ID:	SW-12 (5')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	1000	190	5
Benzoic Acid	ND		ug/kg	3300	1000	5
Benzyl Alcohol	ND		ug/kg	1000	310	5
Carbazole	110	J	ug/kg	1000	98.	5
1,4-Dioxane	ND		ug/kg	150	46.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	19	Q	25-120
Phenol-d6	47		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	13		10-136
4-Terphenyl-d14	59		18-120

Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-05
 Client ID: ST-03 (6')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:20
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 04/28/23 14:43
 Analyst: JW
 Percent Solids: 85%

Extraction Method: ALPHA 23528
 Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.539	0.106	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.08	0.409	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.08	0.439	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.16	0.561	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.16	0.787	1
Surrogate (Extracted Internal Standard)		% Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)		57		5-117		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)		66		10-146		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)		71		10-145		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)		55		10-146		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)		55		10-129		

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-05
Client ID: ST-03 (6')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:20
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 15:40
Analyst: RS
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND	ng/g	0.539	0.025	1	
Perfluoropentanoic Acid (PFPeA)	ND	ng/g	0.539	0.050	1	
Perfluorobutanesulfonic Acid (PFBS)	ND	ng/g	0.270	0.042	1	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ng/g	1.08	0.070	1	
Perfluorohexanoic Acid (PFHxA)	ND	ng/g	0.539	0.057	1	
Perfluoropentanesulfonic Acid (PFPeS)	ND	ng/g	1.08	0.090	1	
Perfluoroheptanoic Acid (PFHpA)	ND	ng/g	0.270	0.049	1	
Perfluorohexanesulfonic Acid (PFHxS)	ND	ng/g	0.270	0.065	1	
Perfluoroctanoic Acid (PFOA)	ND	ng/g	0.270	0.045	1	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ng/g	0.539	0.194	1	
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ng/g	0.539	0.147	1	
Perfluorononanoic Acid (PFNA)	ND	ng/g	0.270	0.081	1	
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/g	0.270	0.140	1	
Perfluorodecanoic Acid (PFDA)	ND	ng/g	0.270	0.072	1	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ng/g	0.539	0.309	1	
Perfluorononanesulfonic Acid (PFNS)	ND	ng/g	1.08	0.322	1	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ng/g	0.539	0.217	1	
Perfluoroundecanoic Acid (PFUnA)	ND	ng/g	0.539	0.050	1	
Perfluorodecanesulfonic Acid (PFDS)	ND	ng/g	0.539	0.165	1	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ng/g	0.539	0.091	1	
Perfluorododecanoic Acid (PFDoA)	ND	ng/g	0.539	0.076	1	
Perfluorotridecanoic Acid (PFTrDA)	ND	ng/g	0.539	0.220	1	
Perfluorotetradecanoic Acid (PFTA)	ND	ng/g	0.539	0.058	1	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ng/g	2.70	1.82	1	
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ng/g	1.08	0.045	1	
Perfluorohexadecanoic Acid (PFHxDA)	ND	ng/g	2.70	0.129	1	
Perfluoroctadecanoic Acid (PFODA)	ND	ng/g	2.70	0.184	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-05	Date Collected:	04/19/23 15:20
Client ID:	ST-03 (6')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		ng/g	1.08	0.093	1
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.08	0.296	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.08	0.040	1
11-Chloroeicosafauro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	ND		ng/g	1.08	0.042	1
Perfluoropropane Sulfonic Acid (PFPsS)	ND		ng/g	1.08	0.216	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.08	0.162	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.08	0.181	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.08	0.241	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.08	0.163	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	86		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	65	Q	74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	66		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	71		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	127		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	68	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	159		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	64		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	83		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	67		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	58		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	63		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	142		50-150



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-05 D
Client ID: ST-03 (6')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:20
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/26/23 06:31
Analyst: IM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 13:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	710	J	ug/kg	780	100	5
1,2,4-Trichlorobenzene	ND		ug/kg	970	110	5
Hexachlorobenzene	ND		ug/kg	580	110	5
Bis(2-chloroethyl)ether	ND		ug/kg	870	130	5
2-Chloronaphthalene	ND		ug/kg	970	96.	5
1,2-Dichlorobenzene	ND		ug/kg	970	170	5
1,3-Dichlorobenzene	ND		ug/kg	970	170	5
1,4-Dichlorobenzene	ND		ug/kg	970	170	5
3,3'-Dichlorobenzidine	ND		ug/kg	970	260	5
2,4-Dinitrotoluene	1100		ug/kg	970	190	5
2,6-Dinitrotoluene	ND		ug/kg	970	170	5
Fluoranthene	420	J	ug/kg	580	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	970	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	970	150	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	97.	5
Hexachlorobutadiene	ND		ug/kg	970	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2800	880	5
Hexachloroethane	ND		ug/kg	780	160	5
Isophorone	ND		ug/kg	870	120	5
Naphthalene	4000		ug/kg	970	120	5
Nitrobenzene	ND		ug/kg	870	140	5
NDPA/DPA	ND		ug/kg	780	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	970	150	5
Bis(2-ethylhexyl)phthalate	1700		ug/kg	970	340	5
Butyl benzyl phthalate	ND		ug/kg	970	240	5
Di-n-butylphthalate	ND		ug/kg	970	180	5
Di-n-octylphthalate	ND		ug/kg	970	330	5



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-05	D	Date Collected:	04/19/23 15:20
Client ID:	ST-03 (6')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	970	90.	5
Dimethyl phthalate	ND		ug/kg	970	200	5
Benzo(a)anthracene	320	J	ug/kg	580	110	5
Benzo(a)pyrene	ND		ug/kg	780	240	5
Benzo(b)fluoranthene	ND		ug/kg	580	160	5
Benzo(k)fluoranthene	ND		ug/kg	580	160	5
Chrysene	370	J	ug/kg	580	100	5
Acenaphthylene	260	J	ug/kg	780	150	5
Anthracene	260	J	ug/kg	580	190	5
Benzo(ghi)perylene	160	J	ug/kg	780	110	5
Fluorene	1100		ug/kg	970	94.	5
Phenanthrene	1600		ug/kg	580	120	5
Dibenzo(a,h)anthracene	ND		ug/kg	580	110	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	780	140	5
Pyrene	770		ug/kg	580	96.	5
Biphenyl	ND		ug/kg	2200	130	5
4-Chloroaniline	ND		ug/kg	970	180	5
2-Nitroaniline	ND		ug/kg	970	190	5
3-Nitroaniline	ND		ug/kg	970	180	5
4-Nitroaniline	ND		ug/kg	970	400	5
Dibenzofuran	300	J	ug/kg	970	92.	5
2-Methylnaphthalene	26000		ug/kg	1200	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	970	100	5
Acetophenone	ND		ug/kg	970	120	5
2,4,6-Trichlorophenol	ND		ug/kg	580	180	5
p-Chloro-m-cresol	ND		ug/kg	970	140	5
2-Chlorophenol	ND		ug/kg	970	110	5
2,4-Dichlorophenol	ND		ug/kg	870	160	5
2,4-Dimethylphenol	ND		ug/kg	970	320	5
2-Nitrophenol	ND		ug/kg	2100	360	5
4-Nitrophenol	ND		ug/kg	1400	400	5
2,4-Dinitrophenol	ND		ug/kg	4600	450	5
4,6-Dinitro-o-cresol	ND		ug/kg	2500	460	5
Pentachlorophenol	ND		ug/kg	780	210	5
Phenol	ND		ug/kg	970	150	5
2-Methylphenol	ND		ug/kg	970	150	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	150	5



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-05	D	Date Collected:	04/19/23 15:20
Client ID:	ST-03 (6')		Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	970	180	5
Benzoic Acid	ND		ug/kg	3100	980	5
Benzyl Alcohol	ND		ug/kg	970	300	5
Carbazole	ND		ug/kg	970	94.	5
1,4-Dioxane	ND		ug/kg	140	45.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	42		10-136
4-Terphenyl-d14	49		18-120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/24/23 16:51
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/23/23 13:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05				Batch: WG1770121-1	
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/24/23 16:51
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/23/23 13:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05				Batch: WG1770121-1	
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	22.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/24/23 16:51
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/23/23 13:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05				Batch: WG1770121-1	
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	43		10-136
4-Terphenyl-d14	57		18-120



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/26/23 11:02
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 04/25/23 16:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01				Batch:	WG1771032-1
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/26/23 11:02
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 04/25/23 16:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01				Batch: WG1771032-1	
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/26/23 11:02
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 04/25/23 16:30

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01				Batch: WG1771032-1	
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	99		25-120
Phenol-d6	98		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	87		18-120



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/27/23 16:36
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s):	01-05			Batch:	WG1771537-1
Perfluorobutanoic Acid (PFBA)	0.065	J	ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	1.00	0.065
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	1.00	0.084
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	1.00	0.299
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND		ng/g	10.0	3.81
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	1.00	0.041
Perfluorohexadecanoic Acid (PFHxDA)	ND		ng/g	2.50	0.120

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/27/23 16:36
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s):	01-05			Batch:	WG1771537-1
Perfluoroctadecanoic Acid (PFODA)	ND		ng/g	2.50	0.171
Perfluorododecane Sulfonic Acid (PFDsDS)	ND		ng/g	1.00	0.086
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND		ng/g	1.00	0.275
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	1.00	0.037
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	1.00	0.039
Perfluoropropene Sulfonic Acid (PFPrS)	ND		ng/g	1.00	0.200
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	1.00	0.150
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	1.00	0.168
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	1.00	0.224
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	1.00	0.152

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/27/23 16:36
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05				Batch: WG1771537-1	

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	65		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	73		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	139		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	74		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	77		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	164	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	83		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	67	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	188	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	62		61-155
N-Deuteroethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	97		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	66		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	52		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	48		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	133		50-150



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 04/28/23 12:15
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 04/26/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05				Batch:	WG1771537-1
Perfluoroctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	1.00	0.379
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	1.00	0.407
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.00	0.520
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.00	0.730

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	62		5-117
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	78		10-146
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	81		10-145
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)	69		10-146
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)	70		10-129

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1770121-2 WG1770121-3								
Acenaphthene	57		59		31-137	3		50
1,2,4-Trichlorobenzene	49		50		38-107	2		50
Hexachlorobenzene	46		47		40-140	2		50
Bis(2-chloroethyl)ether	49		52		40-140	6		50
2-Chloronaphthalene	52		54		40-140	4		50
1,2-Dichlorobenzene	49		53		40-140	8		50
1,3-Dichlorobenzene	50		52		40-140	4		50
1,4-Dichlorobenzene	51		51		28-104	0		50
3,3'-Dichlorobenzidine	50		51		40-140	2		50
2,4-Dinitrotoluene	61		65		40-132	6		50
2,6-Dinitrotoluene	56		55		40-140	2		50
Fluoranthene	58		61		40-140	5		50
4-Chlorophenyl phenyl ether	52		55		40-140	6		50
4-Bromophenyl phenyl ether	53		55		40-140	4		50
Bis(2-chloroisopropyl)ether	49		51		40-140	4		50
Bis(2-chloroethoxy)methane	51		53		40-117	4		50
Hexachlorobutadiene	44		45		40-140	2		50
Hexachlorocyclopentadiene	48		52		40-140	8		50
Hexachloroethane	50		53		40-140	6		50
Isophorone	50		51		40-140	2		50
Naphthalene	50		54		40-140	8		50
Nitrobenzene	50		52		40-140	4		50
NDPA/DPA	60		61		36-157	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1770121-2 WG1770121-3								
n-Nitrosodi-n-propylamine	51		52		32-121	2		50
Bis(2-ethylhexyl)phthalate	74		77		40-140	4		50
Butyl benzyl phthalate	67		69		40-140	3		50
Di-n-butylphthalate	68		70		40-140	3		50
Di-n-octylphthalate	75		76		40-140	1		50
Diethyl phthalate	60		61		40-140	2		50
Dimethyl phthalate	54		55		40-140	2		50
Benzo(a)anthracene	59		61		40-140	3		50
Benzo(a)pyrene	67		70		40-140	4		50
Benzo(b)fluoranthene	60		64		40-140	6		50
Benzo(k)fluoranthene	63		64		40-140	2		50
Chrysene	60		63		40-140	5		50
Acenaphthylene	56		60		40-140	7		50
Anthracene	61		64		40-140	5		50
Benzo(ghi)perylene	57		58		40-140	2		50
Fluorene	58		59		40-140	2		50
Phenanthrene	57		62		40-140	8		50
Dibenzo(a,h)anthracene	54		58		40-140	7		50
Indeno(1,2,3-cd)pyrene	57		60		40-140	5		50
Pyrene	57		59		35-142	3		50
Biphenyl	50		55		37-127	10		50
4-Chloroaniline	42		59		40-140	34		50
2-Nitroaniline	56		60		47-134	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1770121-2 WG1770121-3								
3-Nitroaniline	56		57		26-129	2		50
4-Nitroaniline	64		64		41-125	0		50
Dibenzofuran	58		60		40-140	3		50
2-Methylnaphthalene	54		57		40-140	5		50
1,2,4,5-Tetrachlorobenzene	44		46		40-117	4		50
Acetophenone	50		52		14-144	4		50
2,4,6-Trichlorophenol	52		55		30-130	6		50
p-Chloro-m-cresol	60		60		26-103	0		50
2-Chlorophenol	53		56		25-102	6		50
2,4-Dichlorophenol	55		57		30-130	4		50
2,4-Dimethylphenol	59		61		30-130	3		50
2-Nitrophenol	56		57		30-130	2		50
4-Nitrophenol	60		64		11-114	6		50
2,4-Dinitrophenol	64		63		4-130	2		50
4,6-Dinitro-o-cresol	65		67		10-130	3		50
Pentachlorophenol	54		52		17-109	4		50
Phenol	52		54		26-90	4		50
2-Methylphenol	53		56		30-130.	6		50
3-Methylphenol/4-Methylphenol	55		57		30-130	4		50
2,4,5-Trichlorophenol	52		55		30-130	6		50
Benzoic Acid	39		29		10-110	29		50
Benzyl Alcohol	54		56		40-140	4		50
Carbazole	62		65		54-128	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1770121-2 WG1770121-3								
1,4-Dioxane	36	Q	41		40-140	13		50

Surrogate	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	Acceptance Criteria
2-Fluorophenol	55		58		25-120
Phenol-d6	55		58		10-120
Nitrobenzene-d5	52		55		23-120
2-Fluorobiphenyl	53		55		30-120
2,4,6-Tribromophenol	45		46		10-136
4-Terphenyl-d14	54		57		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
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Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1771032-2 WG1771032-3								
Acenaphthene	95		84		31-137	12		50
1,2,4-Trichlorobenzene	84		78		38-107	7		50
Hexachlorobenzene	87		77		40-140	12		50
Bis(2-chloroethyl)ether	102		94		40-140	8		50
2-Chloronaphthalene	89		81		40-140	9		50
1,2-Dichlorobenzene	89		79		40-140	12		50
1,3-Dichlorobenzene	90		81		40-140	11		50
1,4-Dichlorobenzene	89		82		28-104	8		50
3,3'-Dichlorobenzidine	80		73		40-140	9		50
2,4-Dinitrotoluene	101		90		40-132	12		50
2,6-Dinitrotoluene	89		79		40-140	12		50
Fluoranthene	98		90		40-140	9		50
4-Chlorophenyl phenyl ether	94		81		40-140	15		50
4-Bromophenyl phenyl ether	100		86		40-140	15		50
Bis(2-chloroisopropyl)ether	142	Q	132		40-140	7		50
Bis(2-chloroethoxy)methane	106		98		40-117	8		50
Hexachlorobutadiene	92		84		40-140	9		50
Hexachlorocyclopentadiene	92		84		40-140	9		50
Hexachloroethane	96		89		40-140	8		50
Isophorone	98		89		40-140	10		50
Naphthalene	89		82		40-140	8		50
Nitrobenzene	104		96		40-140	8		50
NDPA/DPA	106		93		36-157	13		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1771032-2 WG1771032-3								
n-Nitrosodi-n-propylamine	110		96		32-121	14		50
Bis(2-ethylhexyl)phthalate	116		103		40-140	12		50
Butyl benzyl phthalate	104		95		40-140	9		50
Di-n-butylphthalate	106		96		40-140	10		50
Di-n-octylphthalate	113		100		40-140	12		50
Diethyl phthalate	104		91		40-140	13		50
Dimethyl phthalate	90		81		40-140	11		50
Benzo(a)anthracene	101		92		40-140	9		50
Benzo(a)pyrene	105		95		40-140	10		50
Benzo(b)fluoranthene	97		88		40-140	10		50
Benzo(k)fluoranthene	98		86		40-140	13		50
Chrysene	102		94		40-140	8		50
Acenaphthylene	96		88		40-140	9		50
Anthracene	99		88		40-140	12		50
Benzo(ghi)perylene	90		81		40-140	11		50
Fluorene	96		85		40-140	12		50
Phenanthrene	94		83		40-140	12		50
Dibenzo(a,h)anthracene	88		78		40-140	12		50
Indeno(1,2,3-cd)pyrene	92		83		40-140	10		50
Pyrene	99		88		35-142	12		50
Biphenyl	84		76		37-127	10		50
4-Chloroaniline	99		89		40-140	11		50
2-Nitroaniline	94		86		47-134	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1771032-2 WG1771032-3								
3-Nitroaniline	89		82		26-129	8		50
4-Nitroaniline	101		93		41-125	8		50
Dibenzofuran	93		82		40-140	13		50
2-Methylnaphthalene	89		83		40-140	7		50
1,2,4,5-Tetrachlorobenzene	88		79		40-117	11		50
Acetophenone	94		87		14-144	8		50
2,4,6-Trichlorophenol	101		94		30-130	7		50
p-Chloro-m-cresol	103		94		26-103	9		50
2-Chlorophenol	94		88		25-102	7		50
2,4-Dichlorophenol	100		91		30-130	9		50
2,4-Dimethylphenol	107		94		30-130	13		50
2-Nitrophenol	93		86		30-130	8		50
4-Nitrophenol	151	Q	130	Q	11-114	15		50
2,4-Dinitrophenol	93		80		4-130	15		50
4,6-Dinitro-o-cresol	106		91		10-130	15		50
Pentachlorophenol	89		79		17-109	12		50
Phenol	106	Q	99	Q	26-90	7		50
2-Methylphenol	99		90		30-130.	10		50
3-Methylphenol/4-Methylphenol	100		91		30-130	9		50
2,4,5-Trichlorophenol	101		89		30-130	13		50
Benzoic Acid	38		50		10-110	27		50
Benzyl Alcohol	106		99		40-140	7		50
Carbazole	98		89		54-128	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1771032-2 WG1771032-3								
1,4-Dioxane	76		69		40-140	10		50

Surrogate	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	Acceptance Criteria
2-Fluorophenol	117		101		25-120
Phenol-d6	115		102		10-120
Nitrobenzene-d5	109		99		23-120
2-Fluorobiphenyl	99		88		30-120
2,4,6-Tribromophenol	88		73		10-136
4-Terphenyl-d14	99		84		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 Batch: WG1771537-2								
Perfluorobutanoic Acid (PFBA)	110		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	113		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	109		-		72-128	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	96		-		62-145	-		30
Perfluorohexanoic Acid (PFHxA)	112		-		70-132	-		30
Perfluoropentanesulfonic Acid (PFPeS)	100		-		73-123	-		30
Perfluoroheptanoic Acid (PFHpA)	113		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	93		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	105		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	102		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	98		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	73		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	83		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	108		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	96		-		65-137	-		30
Perfluorononanesulfonic Acid (PFNS)	103		-		69-125	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	109		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	106		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	111		-		59-134	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	107		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	116		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	115		-		66-139	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 Batch: WG1771537-2								
Perfluorotetradecanoic Acid (PFTA)	113		-		69-133	-		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	122		-		41-165	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	98		-		61-135	-		30
Perfluorohexadecanoic Acid (PFHxDA)	104		-		18-191	-		30
Perfluoroctadecanoic Acid (PFODA)	5	Q	-		10-123	-		30
Perfluorododecane Sulfonic Acid (PFDoDS)	97		-		36-118	-		30
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	114		-		37-261	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	99		-		69-139	-		30
11-Chloroicosafauro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	107		-		51-155	-		30
Perfluoropropane Sulfonic Acid (PFPrS)	124		-		50-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	102		-		50-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	113		-		50-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	95		-		50-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	72		-		50-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 Batch: WG1771537-2								
Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria			
Perfluoro[13C4]Butanoic Acid (MPFBA)	73				61-135			
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	75				58-150			
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	73	Q			74-139			
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	87				14-167			
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83				66-128			
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHxA)	79				71-129			
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83				78-139			
Perfluoro[13C8]Octanoic Acid (M8PFOA)	84				75-130			
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	115				20-154			
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91				72-140			
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86				79-136			
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	71	Q			75-130			
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	131				19-175			
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77				31-134			
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFDA)	73				61-155			
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	106				34-137			
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79				54-150			
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97				24-159			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	53				10-203			
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	61				10-145			
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	116				50-150			

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 Batch: WG1771537-2								
Perfluoroctanesulfonamide (FOSA)	93		-		67-137	-		30
N-Methyl Perfluoroctane Sulfonamide (NMeFOSA)	95		-		62-149	-		30
N-Ethyl Perfluoroctane Sulfonamide (NEtFOSA)	96		-		71-156	-		30
N-Methyl Perfluoroctanesulfonamido Ethanol (NMeFOSE)	78		-		10-239	-		30
N-Ethyl Perfluoroctanesulfonamido Ethanol (NEtFOSE)	113		-		10-275	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	67				5-117
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	82				10-146
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	88				10-145
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)	75				10-146
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)	66				10-129

Matrix Spike Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual	Limits	RPD	RPD Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1771537-5 QC Sample: L2320723-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	6.86	7.54	110		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	6.86	7.75	113		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	6.09	6.52	107		-	-		72-128	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.44	6.22	97		-	-		62-145	-		30
Perfluorohexanoic Acid (PFHxA)	ND	6.86	7.93	116		-	-		70-132	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	6.46	6.59	102		-	-		73-123	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	6.86	7.90	115		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	6.27	5.82	93		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	ND	6.86	7.37	107		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.53	6.11	94		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHps)	ND	6.54	6.74	103		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	6.86	5.19	76		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	6.37	5.34	84		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	6.86	7.59	111		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.59	6.35	96		-	-		65-137	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	6.6	6.15	93		-	-		69-125	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	6.86	7.82	114		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	6.86	7.03	102		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	6.63	5.97	90		-	-		59-134	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	6.86	7.02	102		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	6.86	7.28	106		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	6.86	7.36	107		-	-		66-139	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1771537-5 QC Sample: L2320723-01 Client ID: MS Sample												
Perfluorotetradecanoic Acid (PFTA)	ND	6.86	7.91	115		-	-	-	69-133	-	-	30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	66.9	81.2	121		-	-	-	41-165	-	-	30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.49	6.96	107		-	-	-	61-135	-	-	30
Perfluorohexadecanoic Acid (PFHxDA)	ND	6.86	7.44	108		-	-	-	18-191	-	-	30
Perfluorooctadecanoic Acid (PFODA)	ND	6.86	0.604J	9	Q	-	-	-	10-123	-	-	30
Perfluorododecane Sulfonic Acid (PFDODS)	ND	6.64	5.43	82		-	-	-	36-118	-	-	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (10:2FTS)	ND	6.63	6.86	104		-	-	-	37-261	-	-	30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.41	6.36	99		-	-	-	67-139	-	-	30
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.48	5.72	88		-	-	-	51-155	-	-	30
Perfluoropropane Sulfonic Acid (PPPrS)	ND	6.31	7.64	121		-	-	-	50-150	-	-	30
Perfluoro-3-Methoxypropanoic Acid (PFMMPA)	ND	6.86	7.11	104		-	-	-	50-150	-	-	30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	6.86	7.73	113		-	-	-	50-150	-	-	30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	6.1	6.17	101		-	-	-	50-150	-	-	30
Nonfluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	6.86	5.13	75		-	-	-	50-150	-	-	30

Surrogate (Extracted Internal Standard)	MS	MS		MSD	MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier			
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	119						19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	93						14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	120						20-154

Matrix Spike Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01-05	QC Batch ID: WG1771537-5	QC Sample: L2320723-01	Client ID: MS Sample								
Surrogate (Extracted Internal Standard)												
				MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria				
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)				87				50-150				
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)				61				10-203				
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)				72				34-137				
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)				50				31-134				
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)				64				61-155				
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)				69	Q			75-130				
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)				83				66-128				
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHxA)				85				71-129				
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)				94				78-139				
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)				68				54-150				
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)				74				24-159				
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)				65				10-145				
Perfluoro[13C4]Butanoic Acid (MPFBBA)				69				61-135				
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)				73				58-150				
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)				83				79-136				
Perfluoro[13C8]Octanoic Acid (M8PFOA)				83				75-130				
Perfluoro[13C9]Nonanoic Acid (M9PFNA)				84				72-140				
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)				86				74-139				

Matrix Spike Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1771537-5 QC Sample: L2320723-01 Client ID: MS Sample												
Perfluoroctanesulfonamide (FOSA)	ND	6.86	6.67	97		-	-	-	67-137	-	-	30
N-Methyl Perfluoroctane Sulfonamide (NMeFOSA)	ND	34.3	35.5	103		-	-	-	62-149	-	-	30
N-Ethyl Perfluoroctane Sulfonamide (NEtFOSA)	ND	34.3	34.5	101		-	-	-	71-156	-	-	30
N-Methyl Perfluoroctanesulfonamido Ethanol (NMeFOSE)	ND	17.2	17.3	101		-	-	-	10-239	-	-	30
N-Ethyl Perfluoroctanesulfonamido Ethanol (NEtFOSE)	ND	17.2	19.3	113		-	-	-	10-275	-	-	30

Surrogate (Extracted Internal Standard)	MS	MS		MSD	MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	% Recovery	Qualifier	
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)	72						10-129
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)	61						10-146
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	75						10-145
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	68						10-146
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61						5-117

Lab Duplicate Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1771537-6 QC Sample: L2320723-02 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.926	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluoronananesulfonic Acid (PFNS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1771537-6 QC Sample: L2320723-02 Client ID: DUP Sample						
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ND	ng/g	NC		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/g	NC		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	ND	ng/g	NC		30
Perfluorooctadecanoic Acid (PFODA)	ND	ND	ng/g	NC		30
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND	ND	ng/g	NC		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	ND	ng/g	NC		30
11-Chloroeicosafauro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUds)	ND	ND	ng/g	NC		30
Perfluoropropane Sulfonic Acid (PFPrS)	ND	ND	ng/g	NC		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	ND	ng/g	NC		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	ND	ng/g	NC		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	ND	ng/g	NC		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	66		84		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	71		84		58-150

Lab Duplicate Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1771537-6 QC Sample: L2320723-02 Client ID: DUP Sample						
Surrogate (Extracted Internal Standard)		%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)		72	Q	88		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)		76		94		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)		83		93		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)		78		86		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)		83		94		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)		84		82		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)		103		120		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)		86		80		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)		84		83		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)		69	Q	71	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)		118		128		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)		56		58		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)		72		67		61-155
N-Deuteroethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)		85		82		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDCA)		81		74		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)		91		85		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)		56		67		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)		71		81		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)		119		115		50-150

Lab Duplicate Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1771537-6 QC Sample: L2320723-02 Client ID: DUP Sample						
Perfluoroctanesulfonamide (FOSA)	ND	ND	ng/g	NC		30
N-Methyl Perfluoroctane Sulfonamide (NMeFOSA)	ND	ND	ng/g	NC		30
N-Ethyl Perfluoroctane Sulfonamide (NEtFOSA)	ND	ND	ng/g	NC		30
N-Methyl Perfluoroctanesulfonamido Ethanol (NMFOSE)	ND	ND	ng/g	NC		30
N-Ethyl Perfluoroctanesulfonamido Ethanol (NEtFOSE)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61		60		5-117
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	61		64		10-146
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	76		87		10-145
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE)	53		57		10-146
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)	75		90		10-129

PCBS



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-01
Client ID: SW-09 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/24/23 16:41
Analyst: JM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 01:17
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	57.2	5.08	1	A
Aroclor 1221	ND		ug/kg	57.2	5.73	1	A
Aroclor 1232	ND		ug/kg	57.2	12.1	1	A
Aroclor 1242	ND		ug/kg	57.2	7.71	1	A
Aroclor 1248	ND		ug/kg	57.2	8.58	1	A
Aroclor 1254	50.3	J	ug/kg	57.2	6.26	1	B
Aroclor 1260	77.3		ug/kg	57.2	10.6	1	A
Aroclor 1262	ND		ug/kg	57.2	7.26	1	A
Aroclor 1268	ND		ug/kg	57.2	5.92	1	A
PCBs, Total	128	J	ug/kg	57.2	5.08	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-02
Client ID: SW-10 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:05
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/24/23 16:49
Analyst: JM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 01:17
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	62.5	5.55	1	A
Aroclor 1221	ND		ug/kg	62.5	6.27	1	A
Aroclor 1232	ND		ug/kg	62.5	13.2	1	A
Aroclor 1242	ND		ug/kg	62.5	8.43	1	A
Aroclor 1248	ND		ug/kg	62.5	9.38	1	A
Aroclor 1254	ND		ug/kg	62.5	6.84	1	A
Aroclor 1260	ND		ug/kg	62.5	11.6	1	A
Aroclor 1262	ND		ug/kg	62.5	7.94	1	A
Aroclor 1268	ND		ug/kg	62.5	6.48	1	A
PCBs, Total	ND		ug/kg	62.5	5.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-03
Client ID: SW-11 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:10
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/24/23 16:57
Analyst: JM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 01:17
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.9	4.88	1	A
Aroclor 1221	ND		ug/kg	54.9	5.50	1	A
Aroclor 1232	ND		ug/kg	54.9	11.6	1	A
Aroclor 1242	ND		ug/kg	54.9	7.40	1	A
Aroclor 1248	ND		ug/kg	54.9	8.24	1	A
Aroclor 1254	ND		ug/kg	54.9	6.01	1	A
Aroclor 1260	ND		ug/kg	54.9	10.1	1	A
Aroclor 1262	ND		ug/kg	54.9	6.97	1	A
Aroclor 1268	ND		ug/kg	54.9	5.69	1	A
PCBs, Total	ND		ug/kg	54.9	4.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-04
 Client ID: SW-12 (5')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:15
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/24/23 17:05
 Analyst: JM
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 04/23/23 01:17
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	58.3	5.18	1	A
Aroclor 1221	ND		ug/kg	58.3	5.84	1	A
Aroclor 1232	ND		ug/kg	58.3	12.4	1	A
Aroclor 1242	ND		ug/kg	58.3	7.86	1	A
Aroclor 1248	ND		ug/kg	58.3	8.74	1	A
Aroclor 1254	ND		ug/kg	58.3	6.38	1	A
Aroclor 1260	34.0	J	ug/kg	58.3	10.8	1	A
Aroclor 1262	ND		ug/kg	58.3	7.40	1	A
Aroclor 1268	ND		ug/kg	58.3	6.04	1	A
PCBs, Total	34.0	J	ug/kg	58.3	5.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-05
 Client ID: ST-03 (6')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:20
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/24/23 17:13
 Analyst: JM
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 04/23/23 01:17
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/23/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	56.8	5.04	1	A
Aroclor 1221	ND		ug/kg	56.8	5.69	1	A
Aroclor 1232	ND		ug/kg	56.8	12.0	1	A
Aroclor 1242	ND		ug/kg	56.8	7.66	1	A
Aroclor 1248	ND		ug/kg	56.8	8.52	1	A
Aroclor 1254	38.1	J	ug/kg	56.8	6.21	1	B
Aroclor 1260	18.2	J	ug/kg	56.8	10.5	1	A
Aroclor 1262	ND		ug/kg	56.8	7.21	1	A
Aroclor 1268	ND		ug/kg	56.8	5.88	1	A
PCBs, Total	56.3	J	ug/kg	56.8	5.04	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/24/23 15:30
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 04/23/23 01:17
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s):	01-05			Batch:	WG1770019-1	
Aroclor 1016	ND		ug/kg	46.3	4.11	A
Aroclor 1221	ND		ug/kg	46.3	4.64	A
Aroclor 1232	ND		ug/kg	46.3	9.81	A
Aroclor 1242	ND		ug/kg	46.3	6.24	A
Aroclor 1248	ND		ug/kg	46.3	6.94	A
Aroclor 1254	ND		ug/kg	46.3	5.06	A
Aroclor 1260	ND		ug/kg	46.3	8.56	A
Aroclor 1262	ND		ug/kg	46.3	5.88	A
Aroclor 1268	ND		ug/kg	46.3	4.80	A
PCBs, Total	ND		ug/kg	46.3	4.11	A

Surrogate	%Recovery	Acceptance		
		Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	90		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1770019-2 WG1770019-3									
Aroclor 1016	87		85		40-140	2		50	A
Aroclor 1260	77		78		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		84		30-150	A
Decachlorobiphenyl	83		83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		86		30-150	B
Decachlorobiphenyl	82		83		30-150	B

PESTICIDES

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-01
Client ID: SW-09 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/25/23 12:33
Analyst: MMG
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 05:44
Cleanup Method: EPA 3620B
Cleanup Date: 04/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND	ug/kg	1.76	0.344	1	A	
Lindane	ND	ug/kg	0.732	0.327	1	A	
Alpha-BHC	ND	ug/kg	0.732	0.208	1	A	
Beta-BHC	ND	ug/kg	1.76	0.666	1	A	
Heptachlor	ND	ug/kg	0.878	0.394	1	A	
Aldrin	ND	ug/kg	1.76	0.618	1	A	
Heptachlor epoxide	ND	ug/kg	3.29	0.988	1	A	
Endrin	ND	ug/kg	0.732	0.300	1	A	
Endrin aldehyde	ND	ug/kg	2.19	0.768	1	A	
Endrin ketone	ND	ug/kg	1.76	0.452	1	A	
Dieldrin	ND	ug/kg	1.10	0.549	1	A	
4,4'-DDE	ND	ug/kg	1.76	0.406	1	A	
4,4'-DDD	ND	ug/kg	1.76	0.626	1	A	
4,4'-DDT	ND	ug/kg	1.76	1.41	1	A	
Endosulfan I	ND	ug/kg	1.76	0.415	1	A	
Endosulfan II	ND	ug/kg	1.76	0.587	1	A	
Endosulfan sulfate	ND	ug/kg	0.732	0.348	1	A	
Methoxychlor	ND	ug/kg	3.29	1.02	1	A	
Toxaphene	ND	ug/kg	32.9	9.22	1	A	
cis-Chlordane	ND	ug/kg	2.19	0.612	1	A	
trans-Chlordane	ND	ug/kg	2.19	0.579	1	A	
Chlordane	ND	ug/kg	14.6	5.82	1	A	

Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-01	Date Collected:	04/19/23 15:00
Client ID:	SW-09 (5')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Surrogate			% Recovery	Qualifier	Acceptance Criteria		Column
2,4,5,6-Tetrachloro-m-xylene			42		30-150		A
Decachlorobiphenyl			44		30-150		A
2,4,5,6-Tetrachloro-m-xylene			69		30-150		B
Decachlorobiphenyl			98		30-150		B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-02
Client ID: SW-10 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:05
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/25/23 12:46
Analyst: MMG
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 05:44
Cleanup Method: EPA 3620B
Cleanup Date: 04/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND	ug/kg	2.01	0.393	1	B	
Lindane	ND	ug/kg	0.836	0.374	1	B	
Alpha-BHC	ND	ug/kg	0.836	0.237	1	B	
Beta-BHC	ND	ug/kg	2.01	0.761	1	B	
Heptachlor	ND	ug/kg	1.00	0.450	1	B	
Aldrin	ND	ug/kg	2.01	0.707	1	B	
Heptachlor epoxide	ND	ug/kg	3.76	1.13	1	B	
Endrin	ND	ug/kg	0.836	0.343	1	B	
Endrin aldehyde	ND	ug/kg	2.51	0.878	1	B	
Endrin ketone	ND	ug/kg	2.01	0.517	1	B	
Dieldrin	ND	ug/kg	1.25	0.627	1	B	
4,4'-DDE	ND	ug/kg	2.01	0.464	1	B	
4,4'-DDD	ND	ug/kg	2.01	0.716	1	B	
4,4'-DDT	ND	ug/kg	2.01	1.61	1	B	
Endosulfan I	ND	ug/kg	2.01	0.474	1	B	
Endosulfan II	ND	ug/kg	2.01	0.671	1	B	
Endosulfan sulfate	ND	ug/kg	0.836	0.398	1	B	
Methoxychlor	ND	ug/kg	3.76	1.17	1	B	
Toxaphene	ND	ug/kg	37.6	10.5	1	B	
cis-Chlordane	ND	ug/kg	2.51	0.699	1	B	
trans-Chlordane	ND	ug/kg	2.51	0.662	1	B	
Chlordane	ND	ug/kg	16.7	6.65	1	B	

Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-02	Date Collected:	04/19/23 15:05
Client ID:	SW-10 (5')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Surrogate			% Recovery	Qualifier	Acceptance Criteria		Column
2,4,5,6-Tetrachloro-m-xylene		29		Q	30-150		A
Decachlorobiphenyl		26		Q	30-150		A
2,4,5,6-Tetrachloro-m-xylene		88			30-150		B
Decachlorobiphenyl		77			30-150		B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-03
Client ID: SW-11 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:10
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/25/23 12:58
Analyst: MMG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 05:44
Cleanup Method: EPA 3620B
Cleanup Date: 04/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND	ug/kg	1.76	0.344	1	B	
Lindane	ND	ug/kg	0.732	0.327	1	B	
Alpha-BHC	ND	ug/kg	0.732	0.208	1	B	
Beta-BHC	ND	ug/kg	1.76	0.666	1	B	
Heptachlor	ND	ug/kg	0.879	0.394	1	B	
Aldrin	ND	ug/kg	1.76	0.619	1	B	
Heptachlor epoxide	ND	ug/kg	3.30	0.989	1	B	
Endrin	ND	ug/kg	0.732	0.300	1	B	
Endrin aldehyde	ND	ug/kg	2.20	0.769	1	B	
Endrin ketone	ND	ug/kg	1.76	0.453	1	B	
Dieldrin	ND	ug/kg	1.10	0.549	1	B	
4,4'-DDE	ND	ug/kg	1.76	0.406	1	B	
4,4'-DDD	ND	ug/kg	1.76	0.627	1	B	
4,4'-DDT	ND	ug/kg	1.76	1.41	1	B	
Endosulfan I	ND	ug/kg	1.76	0.415	1	B	
Endosulfan II	ND	ug/kg	1.76	0.587	1	B	
Endosulfan sulfate	ND	ug/kg	0.732	0.349	1	B	
Methoxychlor	ND	ug/kg	3.30	1.02	1	B	
Toxaphene	ND	ug/kg	33.0	9.23	1	B	
cis-Chlordane	ND	ug/kg	2.20	0.612	1	B	
trans-Chlordane	ND	ug/kg	2.20	0.580	1	B	
Chlordane	ND	ug/kg	14.6	5.82	1	B	

Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-03	Date Collected:	04/19/23 15:10
Client ID:	SW-11 (5')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	10	Q	30-150	A
Decachlorobiphenyl	8	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-04
Client ID: SW-12 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:15
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/25/23 13:10
Analyst: MMG
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 05:44
Cleanup Method: EPA 3620B
Cleanup Date: 04/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.87	0.365	1	B
Lindane	ND		ug/kg	0.778	0.348	1	B
Alpha-BHC	ND		ug/kg	0.778	0.221	1	B
Beta-BHC	ND		ug/kg	1.87	0.708	1	B
Heptachlor	ND		ug/kg	0.933	0.418	1	B
Aldrin	ND		ug/kg	1.87	0.657	1	B
Heptachlor epoxide	ND		ug/kg	3.50	1.05	1	B
Endrin	ND		ug/kg	0.778	0.319	1	B
Endrin aldehyde	ND		ug/kg	2.33	0.816	1	B
Endrin ketone	ND		ug/kg	1.87	0.480	1	B
Dieldrin	ND		ug/kg	1.17	0.583	1	B
4,4'-DDE	ND		ug/kg	1.87	0.432	1	B
4,4'-DDD	ND		ug/kg	1.87	0.666	1	B
4,4'-DDT	ND		ug/kg	1.87	1.50	1	B
Endosulfan I	ND		ug/kg	1.87	0.441	1	B
Endosulfan II	ND		ug/kg	1.87	0.624	1	B
Endosulfan sulfate	ND		ug/kg	0.778	0.370	1	B
Methoxychlor	ND		ug/kg	3.50	1.09	1	B
Toxaphene	ND		ug/kg	35.0	9.80	1	B
cis-Chlordane	ND		ug/kg	2.33	0.650	1	B
trans-Chlordane	ND		ug/kg	2.33	0.616	1	B
Chlordane	ND		ug/kg	15.6	6.18	1	B

Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-04	Date Collected:	04/19/23 15:15
Client ID:	SW-12 (5')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Surrogate			% Recovery	Qualifier	Acceptance Criteria		Column
2,4,5,6-Tetrachloro-m-xylene			12	Q	30-150		A
Decachlorobiphenyl			16	Q	30-150		A
2,4,5,6-Tetrachloro-m-xylene			48		30-150		B
Decachlorobiphenyl			67		30-150		B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-05
Client ID: ST-03 (6')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:20
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/25/23 13:22
Analyst: MMG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/23/23 05:44
Cleanup Method: EPA 3620B
Cleanup Date: 04/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND	ug/kg	1.82	0.356	1	B	
Lindane	ND	ug/kg	0.758	0.339	1	B	
Alpha-BHC	ND	ug/kg	0.758	0.215	1	B	
Beta-BHC	ND	ug/kg	1.82	0.690	1	B	
Heptachlor	ND	ug/kg	0.910	0.408	1	B	
Aldrin	ND	ug/kg	1.82	0.640	1	B	
Heptachlor epoxide	ND	ug/kg	3.41	1.02	1	B	
Endrin	ND	ug/kg	0.758	0.311	1	B	
Endrin aldehyde	ND	ug/kg	2.27	0.796	1	B	
Endrin ketone	ND	ug/kg	1.82	0.468	1	B	
Dieldrin	ND	ug/kg	1.14	0.568	1	B	
4,4'-DDE	ND	ug/kg	1.82	0.421	1	B	
4,4'-DDD	ND	ug/kg	1.82	0.649	1	B	
4,4'-DDT	ND	ug/kg	1.82	1.46	1	B	
Endosulfan I	ND	ug/kg	1.82	0.430	1	B	
Endosulfan II	ND	ug/kg	1.82	0.608	1	B	
Endosulfan sulfate	ND	ug/kg	0.758	0.361	1	B	
Methoxychlor	ND	ug/kg	3.41	1.06	1	B	
Toxaphene	ND	ug/kg	34.1	9.55	1	B	
cis-Chlordane	ND	ug/kg	2.27	0.634	1	B	
trans-Chlordane	ND	ug/kg	2.27	0.600	1	B	
Chlordane	ND	ug/kg	15.2	6.02	1	B	

Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID:	L2321045-05	Date Collected:	04/19/23 15:20
Client ID:	ST-03 (6')	Date Received:	04/19/23
Sample Location:	49 DUPONT ST. BROOKLYN	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Surrogate			% Recovery	Qualifier	Acceptance Criteria		Column
2,4,5,6-Tetrachloro-m-xylene		23		Q	30-150		A
Decachlorobiphenyl		23		Q	30-150		A
2,4,5,6-Tetrachloro-m-xylene		85			30-150		B
Decachlorobiphenyl		103			30-150		B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/25/23 10:19
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 04/23/23 05:44
Cleanup Method: EPA 3620B
Cleanup Date: 04/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s):	01-05			Batch:	WG1770034-1	
Delta-BHC	ND		ug/kg	1.55	0.303	A
Lindane	ND		ug/kg	0.644	0.288	A
Alpha-BHC	ND		ug/kg	0.644	0.183	A
Beta-BHC	ND		ug/kg	1.55	0.586	A
Heptachlor	ND		ug/kg	0.773	0.347	A
Aldrin	ND		ug/kg	1.55	0.544	A
Heptachlor epoxide	ND		ug/kg	2.90	0.870	A
Endrin	ND		ug/kg	0.644	0.264	A
Endrin aldehyde	ND		ug/kg	1.93	0.676	A
Endrin ketone	ND		ug/kg	1.55	0.398	A
Dieldrin	ND		ug/kg	0.966	0.483	A
4,4'-DDE	ND		ug/kg	1.55	0.358	A
4,4'-DDD	ND		ug/kg	1.55	0.552	A
4,4'-DDT	ND		ug/kg	1.55	1.24	A
Endosulfan I	ND		ug/kg	1.55	0.365	A
Endosulfan II	ND		ug/kg	1.55	0.517	A
Endosulfan sulfate	ND		ug/kg	0.644	0.307	A
Methoxychlor	ND		ug/kg	2.90	0.902	A
Toxaphene	ND		ug/kg	29.0	8.12	A
cis-Chlordane	ND		ug/kg	1.93	0.539	A
trans-Chlordane	ND		ug/kg	1.93	0.510	A
Chlordane	ND		ug/kg	12.9	5.12	A

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/25/23 10:19
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 04/23/23 05:44
Cleanup Method: EPA 3620B
Cleanup Date: 04/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s):	01-05			Batch:	WG1770034-1	

Surrogate	%Recovery	Acceptance Criteria			Column
		Qualifier	Criteria		
2,4,5,6-Tetrachloro-m-xylene	69		30-150		A
Decachlorobiphenyl	82		30-150		A
2,4,5,6-Tetrachloro-m-xylene	70		30-150		B
Decachlorobiphenyl	84		30-150		B

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1770034-2 WG1770034-3									
Delta-BHC	95		84		30-150	12		30	A
Lindane	87		77		30-150	12		30	A
Alpha-BHC	88		78		30-150	12		30	A
Beta-BHC	92		81		30-150	13		30	A
Heptachlor	85		76		30-150	11		30	A
Aldrin	86		76		30-150	12		30	A
Heptachlor epoxide	76		68		30-150	11		30	A
Endrin	89		80		30-150	11		30	A
Endrin aldehyde	59		52		30-150	13		30	A
Endrin ketone	77		72		30-150	7		30	A
Dieldrin	94		84		30-150	11		30	A
4,4'-DDE	88		79		30-150	11		30	A
4,4'-DDD	97		87		30-150	11		30	A
4,4'-DDT	95		82		30-150	15		30	A
Endosulfan I	85		76		30-150	11		30	A
Endosulfan II	87		79		30-150	10		30	A
Endosulfan sulfate	57		54		30-150	5		30	A
Methoxychlor	88		78		30-150	12		30	A
cis-Chlordane	76		69		30-150	10		30	A
trans-Chlordane	98		89		30-150	10		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1770034-2 WG1770034-3								
Surrogate	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>			<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	71		64		30-150			A
Decachlorobiphenyl	89		82		30-150			A
2,4,5,6-Tetrachloro-m-xylene	71		64		30-150			B
Decachlorobiphenyl	80		75		30-150			B

METALS



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-01
 Client ID: SW-09 (5')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:00
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Aluminum, Total	7570		mg/kg	8.98	2.42	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Antimony, Total	0.667	J	mg/kg	4.49	0.341	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Arsenic, Total	3.84		mg/kg	0.898	0.187	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Barium, Total	53.8		mg/kg	0.898	0.156	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Beryllium, Total	0.376	J	mg/kg	0.449	0.030	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Cadmium, Total	0.232	J	mg/kg	0.898	0.088	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Calcium, Total	5700		mg/kg	8.98	3.14	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Chromium, Total	19.0		mg/kg	0.898	0.086	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Cobalt, Total	5.86		mg/kg	1.80	0.149	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Copper, Total	22.7		mg/kg	0.898	0.232	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Iron, Total	18600		mg/kg	4.49	0.810	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Lead, Total	46.8		mg/kg	4.49	0.240	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Magnesium, Total	2940		mg/kg	8.98	1.38	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Manganese, Total	248		mg/kg	0.898	0.143	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Mercury, Total	0.147		mg/kg	0.073	0.048	1	04/25/23 08:40	04/26/23 00:53	EPA 7471B	1,7471B	DMB
Nickel, Total	13.1		mg/kg	2.24	0.217	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Potassium, Total	1910		mg/kg	224	12.9	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Selenium, Total	ND		mg/kg	1.80	0.232	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Silver, Total	ND		mg/kg	0.449	0.254	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Sodium, Total	167	J	mg/kg	180	2.83	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Thallium, Total	1.22	J	mg/kg	1.80	0.283	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Vanadium, Total	27.4		mg/kg	0.898	0.182	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB
Zinc, Total	95.6		mg/kg	4.49	0.263	2	04/25/23 08:00	04/25/23 12:33	EPA 3050B	1,6010D	NTB



Project Name: NUHART EAST

Lab Number: L2321045

Project Number: 0201891

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-02
 Client ID: SW-10 (5')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:05
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Aluminum, Total	7050		mg/kg	9.98	2.69	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Antimony, Total	0.710	J	mg/kg	4.99	0.379	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Arsenic, Total	2.53		mg/kg	0.998	0.208	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Barium, Total	57.5		mg/kg	0.998	0.174	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Beryllium, Total	0.535		mg/kg	0.499	0.033	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Cadmium, Total	0.261	J	mg/kg	0.998	0.098	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Calcium, Total	1170		mg/kg	9.98	3.49	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Chromium, Total	17.1		mg/kg	0.998	0.096	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Cobalt, Total	9.40		mg/kg	2.00	0.166	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Copper, Total	21.6		mg/kg	0.998	0.257	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Iron, Total	17000		mg/kg	4.99	0.901	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Lead, Total	43.4		mg/kg	4.99	0.267	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Magnesium, Total	3590		mg/kg	9.98	1.54	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Manganese, Total	320		mg/kg	0.998	0.159	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Mercury, Total	0.333		mg/kg	0.081	0.053	1	04/25/23 08:40	04/26/23 00:56	EPA 7471B	1,7471B	DMB
Nickel, Total	15.7		mg/kg	2.49	0.241	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Potassium, Total	2150		mg/kg	249	14.4	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Selenium, Total	ND		mg/kg	2.00	0.257	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Silver, Total	ND		mg/kg	0.499	0.282	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Sodium, Total	86.1	J	mg/kg	200	3.14	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Thallium, Total	1.11	J	mg/kg	2.00	0.314	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Vanadium, Total	24.2		mg/kg	0.998	0.202	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB
Zinc, Total	100		mg/kg	4.99	0.292	2	04/25/23 08:00	04/25/23 12:36	EPA 3050B	1,6010D	NTB



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2321045

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-03
 Client ID: SW-11 (5')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:10
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Aluminum, Total	8500		mg/kg	8.88	2.40	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Antimony, Total	ND		mg/kg	4.44	0.338	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Arsenic, Total	3.45		mg/kg	0.888	0.185	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Barium, Total	54.1		mg/kg	0.888	0.154	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Beryllium, Total	0.462		mg/kg	0.444	0.029	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Cadmium, Total	0.194	J	mg/kg	0.888	0.087	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Calcium, Total	550		mg/kg	8.88	3.11	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Chromium, Total	20.9		mg/kg	0.888	0.085	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Cobalt, Total	7.67		mg/kg	1.78	0.147	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Copper, Total	22.1		mg/kg	0.888	0.229	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Iron, Total	21200		mg/kg	4.44	0.802	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Lead, Total	16.2		mg/kg	4.44	0.238	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Magnesium, Total	3580		mg/kg	8.88	1.37	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Manganese, Total	197		mg/kg	0.888	0.141	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Mercury, Total	0.075		mg/kg	0.072	0.047	1	04/25/23 08:40	04/26/23 01:00	EPA 7471B	1,7471B	DMB
Nickel, Total	15.5		mg/kg	2.22	0.215	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Potassium, Total	2300		mg/kg	222	12.8	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Selenium, Total	ND		mg/kg	1.78	0.229	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Silver, Total	ND		mg/kg	0.444	0.251	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Sodium, Total	96.1	J	mg/kg	178	2.80	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Thallium, Total	1.52	J	mg/kg	1.78	0.280	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Vanadium, Total	28.7		mg/kg	0.888	0.180	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB
Zinc, Total	74.4		mg/kg	4.44	0.260	2	04/25/23 08:00	04/25/23 12:38	EPA 3050B	1,6010D	NTB



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2321045

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-04
 Client ID: SW-12 (5')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:15
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5910		mg/kg	9.43	2.54	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Antimony, Total	1.66	J	mg/kg	4.71	0.358	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Arsenic, Total	3.62		mg/kg	0.943	0.196	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Barium, Total	56.5		mg/kg	0.943	0.164	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Beryllium, Total	0.360	J	mg/kg	0.471	0.031	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Cadmium, Total	1.66		mg/kg	0.943	0.092	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Calcium, Total	4570		mg/kg	9.43	3.30	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Chromium, Total	27.9		mg/kg	0.943	0.091	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Cobalt, Total	7.06		mg/kg	1.88	0.156	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Copper, Total	39.3		mg/kg	0.943	0.243	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Iron, Total	16900		mg/kg	4.71	0.851	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Lead, Total	127		mg/kg	4.71	0.253	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Magnesium, Total	2800		mg/kg	9.43	1.45	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Manganese, Total	198		mg/kg	0.943	0.150	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Mercury, Total	0.829		mg/kg	0.078	0.051	1	04/25/23 08:40	04/26/23 01:03	EPA 7471B	1,7471B	DMB
Nickel, Total	14.4		mg/kg	2.36	0.228	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Potassium, Total	1740		mg/kg	236	13.6	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Selenium, Total	ND		mg/kg	1.88	0.243	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Silver, Total	ND		mg/kg	0.471	0.267	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Sodium, Total	129	J	mg/kg	188	2.97	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Thallium, Total	0.676	J	mg/kg	1.88	0.297	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Vanadium, Total	24.8		mg/kg	0.943	0.191	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB
Zinc, Total	169		mg/kg	4.71	0.276	2	04/25/23 08:00	04/25/23 12:41	EPA 3050B	1,6010D	NTB



Project Name: NUHART EAST

Project Number: 0201891

Lab Number: L2321045

Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-05
 Client ID: ST-03 (6')
 Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:20
 Date Received: 04/19/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5370		mg/kg	9.17	2.48	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Antimony, Total	0.388	J	mg/kg	4.59	0.348	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Arsenic, Total	4.05		mg/kg	0.917	0.191	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Barium, Total	40.3		mg/kg	0.917	0.160	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Beryllium, Total	0.308	J	mg/kg	0.459	0.030	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Cadmium, Total	0.245	J	mg/kg	0.917	0.090	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Calcium, Total	2490		mg/kg	9.17	3.21	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Chromium, Total	13.4		mg/kg	0.917	0.088	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Cobalt, Total	6.09		mg/kg	1.83	0.152	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Copper, Total	18.3		mg/kg	0.917	0.237	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Iron, Total	16200		mg/kg	4.59	0.828	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Lead, Total	34.3		mg/kg	4.59	0.246	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Magnesium, Total	2190		mg/kg	9.17	1.41	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Manganese, Total	269		mg/kg	0.917	0.146	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Mercury, Total	0.132		mg/kg	0.075	0.049	1	04/25/23 08:40	04/26/23 01:06	EPA 7471B	1,7471B	DMB
Nickel, Total	12.2		mg/kg	2.29	0.222	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Potassium, Total	960		mg/kg	229	13.2	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Selenium, Total	0.288	J	mg/kg	1.83	0.237	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Silver, Total	ND		mg/kg	0.459	0.260	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Sodium, Total	80.7	J	mg/kg	183	2.89	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Thallium, Total	0.397	J	mg/kg	1.83	0.289	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Vanadium, Total	21.7		mg/kg	0.917	0.186	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB
Zinc, Total	77.9		mg/kg	4.59	0.269	2	04/25/23 08:00	04/25/23 12:59	EPA 3050B	1,6010D	NTB



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1769141-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Antimony, Total	ND	mg/kg	2.00	0.152	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Barium, Total	ND	mg/kg	0.400	0.070	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Calcium, Total	ND	mg/kg	4.00	1.40	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Chromium, Total	ND	mg/kg	0.400	0.038	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Copper, Total	ND	mg/kg	0.400	0.103	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Iron, Total	9.02	mg/kg	2.00	0.361	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Lead, Total	ND	mg/kg	2.00	0.107	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Manganese, Total	ND	mg/kg	0.400	0.064	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Nickel, Total	ND	mg/kg	1.00	0.097	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Potassium, Total	ND	mg/kg	100	5.76	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Selenium, Total	ND	mg/kg	0.800	0.103	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Silver, Total	ND	mg/kg	0.200	0.113	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Sodium, Total	ND	mg/kg	80.0	1.26	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Thallium, Total	ND	mg/kg	0.800	0.126	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB	
Zinc, Total	0.123	J	mg/kg	2.00	0.117	1	04/25/23 08:00	04/25/23 11:11	1,6010D	NTB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1769142-1										
Mercury, Total	0.056	J	mg/kg	0.083	0.054	1	04/25/23 08:40	04/25/23 12:34	1,7471B	DMB



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1769141-2 SRM Lot Number: D116-540								
Aluminum, Total	88	-	-	-	45-155	-	-	-
Antimony, Total	176	-	-	-	2-205	-	-	-
Arsenic, Total	104	-	-	-	82-119	-	-	-
Barium, Total	95	-	-	-	82-118	-	-	-
Beryllium, Total	99	-	-	-	82-118	-	-	-
Cadmium, Total	99	-	-	-	82-118	-	-	-
Calcium, Total	97	-	-	-	81-119	-	-	-
Chromium, Total	99	-	-	-	81-118	-	-	-
Cobalt, Total	100	-	-	-	83-117	-	-	-
Copper, Total	100	-	-	-	83-117	-	-	-
Iron, Total	109	-	-	-	58-142	-	-	-
Lead, Total	103	-	-	-	83-117	-	-	-
Magnesium, Total	100	-	-	-	75-125	-	-	-
Manganese, Total	97	-	-	-	82-118	-	-	-
Nickel, Total	100	-	-	-	82-118	-	-	-
Potassium, Total	99	-	-	-	68-131	-	-	-
Selenium, Total	103	-	-	-	78-122	-	-	-
Silver, Total	105	-	-	-	79-121	-	-	-
Sodium, Total	97	-	-	-	71-130	-	-	-
Thallium, Total	105	-	-	-	80-120	-	-	-
Vanadium, Total	101	-	-	-	78-122	-	-	-

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1769141-2 SRM Lot Number: D116-540					
Zinc, Total	101	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1769142-2 SRM Lot Number: D116-540					
Mercury, Total	98	-	58-142	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1769141-3 WG1769141-4 QC Sample: L2321069-01 Client ID: MS Sample												
Aluminum, Total	5170	166	5740	343	Q	5580	243	Q	75-125	3		20
Antimony, Total	ND	41.6	36.1	87		37.1	88		75-125	3		20
Arsenic, Total	1.76	9.97	11.7	100		12.0	101		75-125	3		20
Barium, Total	31.4	166	185	92		187	92		75-125	1		20
Beryllium, Total	0.306J	4.16	4.37	105		4.46	106		75-125	2		20
Cadmium, Total	ND	4.4	4.12	94		4.21	94		75-125	2		20
Calcium, Total	738	831	1550	98		1560	97		75-125	1		20
Chromium, Total	12.9	16.6	28.6	94		28.1	90		75-125	2		20
Cobalt, Total	4.78	41.6	42.8	91		43.4	92		75-125	1		20
Copper, Total	7.83	20.8	28.1	98		28.7	99		75-125	2		20
Iron, Total	12000	83.1	12700	842	Q	12100	118		75-125	5		20
Lead, Total	4.75	44	47.4	97		49.0	99		75-125	3		20
Magnesium, Total	2190	831	3030	101		2990	95		75-125	1		20
Manganese, Total	447	41.6	459	29	Q	482	83		75-125	5		20
Nickel, Total	9.40	41.6	46.9	90		47.8	91		75-125	2		20
Potassium, Total	796	831	1650	103		1610	96		75-125	2		20
Selenium, Total	ND	9.97	9.65	97		9.75	96		75-125	1		20
Silver, Total	ND	4.16	3.53	85		3.60	85		75-125	2		20
Sodium, Total	192	831	985	95		1010	97		75-125	3		20
Thallium, Total	0.464J	9.97	10.2	102		10.6	105		75-125	4		20
Vanadium, Total	17.7	41.6	57.0	94		57.8	95		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1769141-3 WG1769141-4 QC Sample: L2321069-01 Client ID: MS Sample									
Zinc, Total	26.2	41.6	67.1	98	65.0	92	75-125	3	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1769142-3 WG1769142-4 QC Sample: L2321069-01 Client ID: MS Sample									
Mercury, Total	ND	1.37	1.38	100	1.42	102	80-120	3	20

Project Name: NUHART EAST
Project Number: 0201891

**Lab Serial Dilution
Analysis
Batch Quality Control**

Lab Number: L2321045
Report Date: 05/03/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1769141-6 QC Sample: L2321069-01 Client ID: DUP Sample						
Aluminum, Total	5170	5430	mg/kg	5		20
Barium, Total	31.4	33.8	mg/kg	8		20
Calcium, Total	738	762	mg/kg	3		20
Iron, Total	12000	13000	mg/kg	8		20
Magnesium, Total	2190	2280	mg/kg	4		20
Manganese, Total	447	471	mg/kg	5		20

INORGANICS & MISCELLANEOUS



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-01
Client ID: SW-09 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:00
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7	%	0.100	NA	1	-	04/20/23 12:29	121,2540G	ROI	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-02
Client ID: SW-10 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:05
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.7	%	0.100	NA	1	-	04/20/23 12:29	121,2540G	ROI	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-03
Client ID: SW-11 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:10
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8	%	0.100	NA	1	-	04/20/23 12:29	121,2540G	ROI	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-04
Client ID: SW-12 (5')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:15
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.6	%	0.100	NA	1	-	04/20/23 12:29	121,2540G	ROI	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

SAMPLE RESULTS

Lab ID: L2321045-05
Client ID: ST-03 (6')
Sample Location: 49 DUPONT ST. BROOKLYN

Date Collected: 04/19/23 15:20
Date Received: 04/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	04/20/23 12:29	121,2540G	ROI

Project Name: NUHART EAST
Project Number: 0201891

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L2321045
Report Date: 05/03/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1768946-1 QC Sample: L2321069-01 Client ID: DUP Sample						
Solids, Total	91.5	92.3	%	1		20

Project Name: NUHART EAST
Project Number: 0201891

Serial_No:05032317:38
Lab Number: L2321045
Report Date: 05/03/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2321045-01A	Vial MeOH preserved	B	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L2321045-01B	Vial water preserved	B	NA		4.8	Y	Absent	20-APR-23 05:58	NYTCL-8260HLW(14)
L2321045-01C	Vial water preserved	B	NA		4.8	Y	Absent	20-APR-23 05:58	NYTCL-8260HLW(14)
L2321045-01D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2321045-01E	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2321045-01F	Plastic 120ml unpreserved	B	NA		4.8	Y	Absent		TS(7)
L2321045-01G	Plastic 8oz unpreserved	A	NA		2.5	Y	Absent		A2-537-ISOTOPE-FULL(90)
L2321045-01H	Glass 250ml/8oz unpreserved	B	NA		4.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2321045-02A	Vial MeOH preserved	B	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L2321045-02B	Vial water preserved	B	NA		4.8	Y	Absent	20-APR-23 05:58	NYTCL-8260HLW(14)
L2321045-02C	Vial water preserved	B	NA		4.8	Y	Absent	20-APR-23 05:58	NYTCL-8260HLW(14)
L2321045-02D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2321045-02E	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2321045-02F	Plastic 120ml unpreserved	B	NA		4.8	Y	Absent		TS(7)
L2321045-02G	Plastic 8oz unpreserved	A	NA		2.5	Y	Absent		A2-537-ISOTOPE-FULL(90)
L2321045-02H	Glass 250ml/8oz unpreserved	B	NA		4.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2321045-03A	Vial MeOH preserved	B	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L2321045-03B	Vial water preserved	B	NA		4.8	Y	Absent	20-APR-23 05:58	NYTCL-8260HLW(14)
L2321045-03C	Vial water preserved	B	NA		4.8	Y	Absent	20-APR-23 05:58	NYTCL-8260HLW(14)
L2321045-03D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2321045-03E	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2321045-03F	Plastic 120ml unpreserved	B	NA		4.8	Y	Absent		TS(7)
L2321045-03G	Plastic 8oz unpreserved	A	NA		2.5	Y	Absent		A2-537-ISOTOPE-FULL(90)
L2321045-03H	Glass 250ml/8oz unpreserved	B	NA		4.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2321045-04A	Vial MeOH preserved	B	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L2321045-04B	Vial water preserved	B	NA		4.8	Y	Absent	20-APR-23 05:58	NYTCL-8260HLW(14)
L2321045-04C	Vial water preserved	B	NA		4.8	Y	Absent	20-APR-23 05:58	NYTCL-8260HLW(14)
L2321045-04D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2321045-04E	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2321045-04F	Plastic 120ml unpreserved	B	NA		4.8	Y	Absent		TS(7)
L2321045-04G	Plastic 8oz unpreserved	A	NA		2.5	Y	Absent		A2-537-ISOTOPE-FULL(90)
L2321045-04H	Glass 250ml/8oz unpreserved	B	NA		4.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2321045-05A	Vial MeOH preserved	B	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L2321045-05B	Vial water preserved	B	NA		4.8	Y	Absent	20-APR-23 05:58	NYTCL-8260HLW(14)
L2321045-05C	Vial water preserved	B	NA		4.8	Y	Absent	20-APR-23 05:58	NYTCL-8260HLW(14)
L2321045-05D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)

*Values in parentheses indicate holding time in days

Project Name: NUHART EAST
Project Number: 0201891

Serial_No:05032317:38
Lab Number: L2321045
Report Date: 05/03/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2321045-05E	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L2321045-05F	Plastic 120ml unpreserved	B	NA		4.8	Y	Absent		TS(7)
L2321045-05G	Plastic 8oz unpreserved	A	NA		2.5	Y	Absent		A2-537-ISOTOPE-FULL(90)
L2321045-05H	Glass 250ml/8oz unpreserved	B	NA		4.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)

Project Name: NUHART EAST
Project Number: 0201891

Serial_No:05032317:38
Lab Number: L2321045
Report Date: 05/03/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluoroctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PPPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluoroctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PPPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PPPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluoroctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluoroctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluoroctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluoroctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluoroctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluoroctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluoroctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluoroctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid	11CI-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9CI-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: NUHART EAST
Project Number: 0201891

Serial_No:05032317:38
Lab Number: L2321045
Report Date: 05/03/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: NUHART EAST
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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: NUHART EAST
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Lab Number: L2321045
Report Date: 05/03/23

Data Qualifiers

Identified Compounds (TICs).

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321045
Report Date: 05/03/23

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C**, **SM4500CN-CE**, **EPA 180.1**, **SM2130B**, **SM4500CI-D**, **SM2320B**, **SM2540C**, **SM4500H-B**, **SM4500NO2-B**

EPA 332: Perchlorate; **EPA 524.2**: THMs and VOCs; **EPA 504.1**: EDB, DBCP.

Microbiology: **SM9215B**; **SM9223-P/A**, **SM9223B-Colilert-QT**, **SM9222D**.

Non-Potable Water

SM4500H,B, **EPA 120.1**, **SM2510B**, **SM2540C**, **SM2320B**, **SM4500CL-E**, **SM4500F-BC**, **SM4500NH3-BH**: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1**, **SM4500NO3-F**, **EPA 353.2**: Nitrate-N, **SM4500P-E**, **SM4500P-B**, **E**, **SM4500SO4-E**, **SM5220D**, **EPA 410.4**, **SM5210B**, **SM5310C**, **SM4500CL-D**, **EPA 1664**, **EPA 420.1**, **SM4500-CN-CE**, **SM2540D**, **EPA 300**: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

Microbiology: **SM9223B-Colilert-QT**; **Enterolert-QT**, **SM9221E**, **EPA 1600**, **EPA 1603**, **SM9222D**.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8**: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg. **EPA 522**, **EPA 537.1**.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

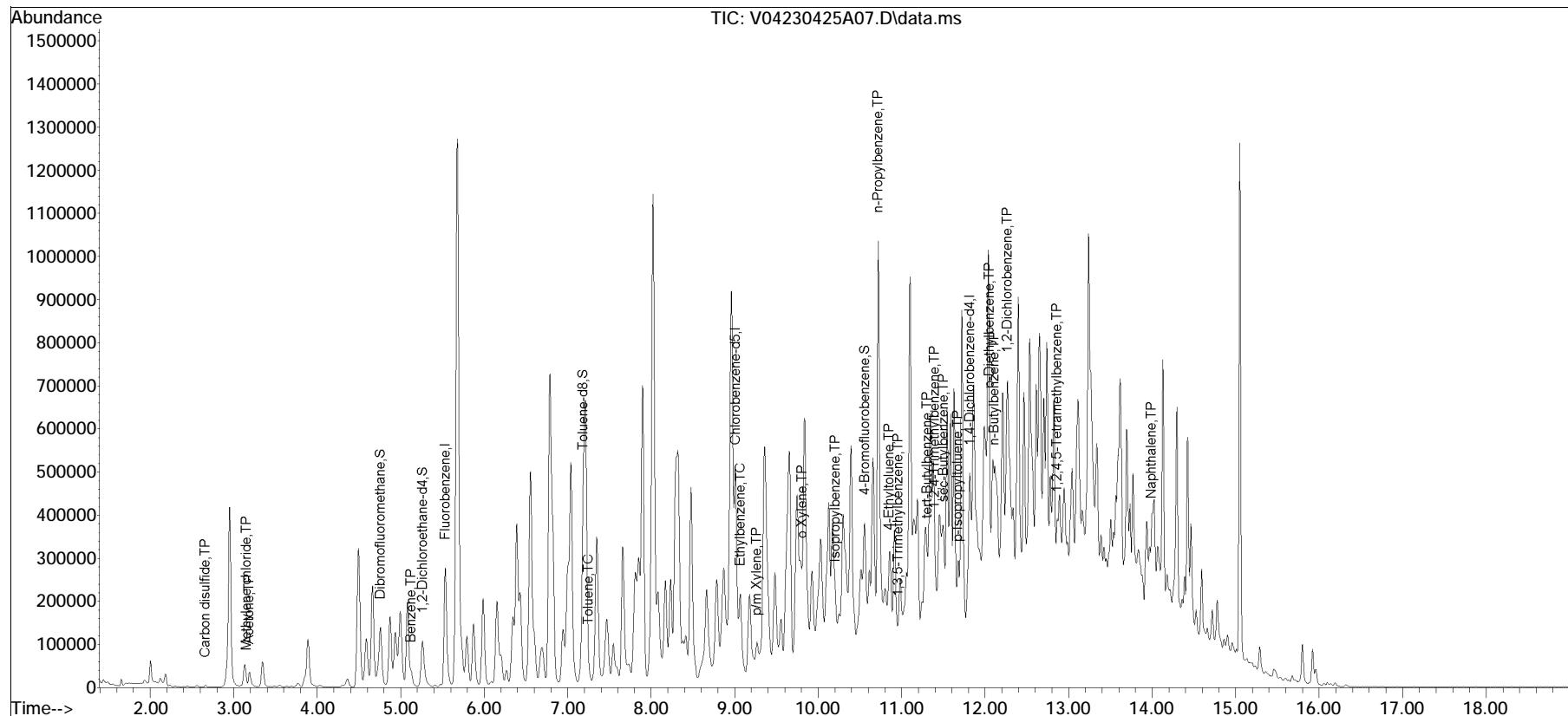
For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2023\2304235A\
Data File : V04230425A07.D
Acq On : 25 Apr 2023 2:33 pm
Operator : VOA104:LAC
Sample : L2321045-02,31,4.97,5,,B
Misc : WG1771090,ICAL19908
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 25 19:23:34 2023
Quant Method : I:\VOLATILES\VOA104\2023\2304235A\V104_230407N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Apr 11 16:51:00 2023
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox304235A\v042304125A01.D•

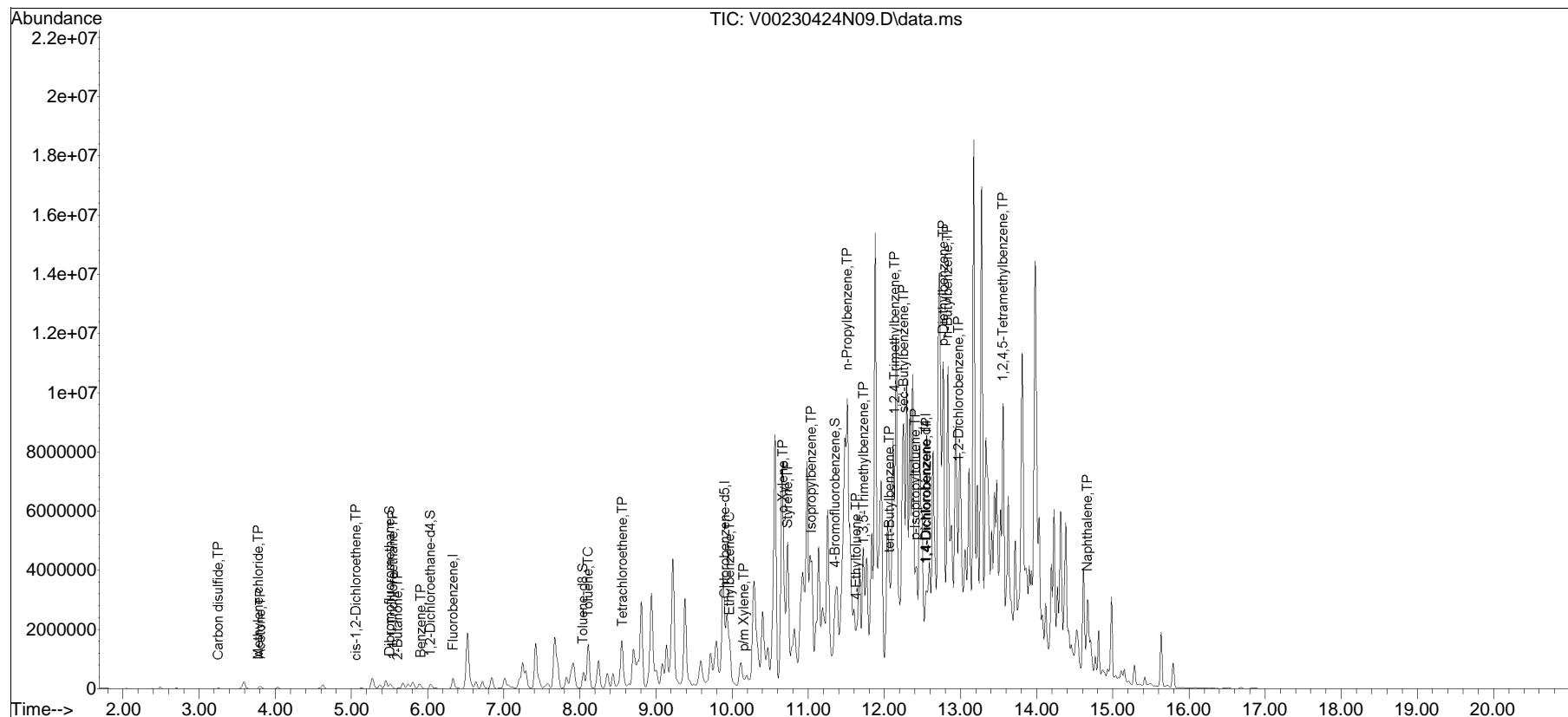


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA100\2023\230424N\
 Data File : V00230424N09.D
 Acq On : 24 Apr 2023 7:16 pm
 Operator : VOA100:JIC
 Sample : L2321045-04,31,5.35,5,,B
 Misc : WG1770927, ICAL19924
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 25 10:37:12 2023
 Quant Method : I:\VOLATILES\VOA100\2023\230424N\V100_230413N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Apr 14 10:30:46 2023
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox30424N\V00230424N01.D•





ANALYTICAL REPORT

Lab Number:	L2321983
Client:	Haley & Aldrich 237 West 35th Street 16th Floor New York, NY 10123
ATTN:	Mari Cate Conlon
Phone:	(347) 271-1521
Project Name:	NUHART EAST
Project Number:	0201891
Report Date:	05/01/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2321983-01	DEP-01	WATER	49 DUPONT ST BROOKLYN, NY	04/24/23 14:45	04/24/23
L2321983-02	TRIP BLANK	WATER	49 DUPONT ST BROOKLYN, NY	04/24/23 00:00	04/24/23

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Case Narrative (continued)

Report Submission

May 01, 2023: This final report includes the results of all requested analyses.

April 26, 2023: This is a preliminary report.

April 25, 2023: This is a preliminary report.

April 25, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics by Method 624

L2321983-02: The pH of the sample was less than two. It should be noted that 2-chloroethylvinyl ether breaks down under acidic conditions. The sample was not appropriately preserved for the analysis of acrolein.

Semivolatile Organics by Method 625

The WG1770677-2 LCS recovery, associated with L2321983-01, is above the acceptance criteria for azobenzene (119%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 05/01/23

ORGANICS

VOLATILES



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

SAMPLE RESULTS

Lab ID: L2321983-01
Client ID: DEP-01
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/24/23 14:45
Date Received: 04/24/23
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 04/25/23 12:46
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1.0	0.56	1
1,1-Dichloroethane	ND		ug/l	1.5	0.40	1
Chloroform	38		ug/l	1.0	0.38	1
Carbon tetrachloride	ND		ug/l	1.0	0.24	1
1,2-Dichloropropane	ND		ug/l	3.5	0.46	1
Dibromochloromethane	ND		ug/l	1.0	0.27	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34	1
2-Chloroethylvinyl ether	ND		ug/l	10	0.35	1
Tetrachloroethene	ND		ug/l	1.0	0.26	1
Chlorobenzene	ND		ug/l	3.5	0.30	1
Trichlorofluoromethane	ND		ug/l	5.0	0.28	1
1,2-Dichloroethane	ND		ug/l	1.5	0.47	1
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29	1
Bromodichloromethane	3.8		ug/l	1.0	0.28	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34	1
1,3-Dichloropropene, Total	ND		ug/l	1.5	0.31	1
Bromoform	ND		ug/l	1.0	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.20	1
Benzene	ND		ug/l	1.0	0.38	1
Toluene	ND		ug/l	1.0	0.31	1
Ethylbenzene	ND		ug/l	1.0	0.28	1
Chloromethane	ND		ug/l	5.0	1.0	1
Bromomethane	ND		ug/l	5.0	1.2	1
Vinyl chloride	ND		ug/l	1.0	0.38	1
Chloroethane	ND		ug/l	2.0	0.37	1
1,1-Dichloroethene	ND		ug/l	1.0	0.31	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33	1

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

SAMPLE RESULTS

Lab ID:	L2321983-01	Date Collected:	04/24/23 14:45
Client ID:	DEP-01	Date Received:	04/24/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	1.0	0.17	1
Trichloroethene	ND		ug/l	1.0	0.33	1
1,2-Dichlorobenzene	ND		ug/l	5.0	0.28	1
1,3-Dichlorobenzene	ND		ug/l	5.0	0.27	1
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29	1
p/m-Xylene	ND		ug/l	2.0	0.30	1
o-xylene	ND		ug/l	1.0	0.34	1
Xylenes, Total	ND		ug/l	1.0	0.30	1
Styrene	ND		ug/l	1.0	0.37	1
Acetone	5.2	J	ug/l	10	2.4	1
Carbon disulfide	ND		ug/l	5.0	0.28	1
2-Butanone	6.3	J	ug/l	10	1.0	1
Vinyl acetate	ND		ug/l	10	0.41	1
4-Methyl-2-pentanone	ND		ug/l	10	0.19	1
2-Hexanone	ND		ug/l	10	0.55	1
Acrolein	ND		ug/l	8.0	1.8	1
Acrylonitrile	ND		ug/l	10	0.33	1
Dibromomethane	ND		ug/l	1.0	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	88		60-140
Fluorobenzene	98		60-140
4-Bromofluorobenzene	93		60-140

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

SAMPLE RESULTS

Lab ID: L2321983-02
Client ID: TRIP BLANK
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/24/23 00:00
Date Received: 04/24/23
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 04/25/23 12:11
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1.0	0.56	1
1,1-Dichloroethane	ND		ug/l	1.5	0.40	1
Chloroform	ND		ug/l	1.0	0.38	1
Carbon tetrachloride	ND		ug/l	1.0	0.24	1
1,2-Dichloropropane	ND		ug/l	3.5	0.46	1
Dibromochloromethane	ND		ug/l	1.0	0.27	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34	1
2-Chloroethylvinyl ether	ND		ug/l	10	0.35	1
Tetrachloroethene	ND		ug/l	1.0	0.26	1
Chlorobenzene	ND		ug/l	3.5	0.30	1
Trichlorofluoromethane	ND		ug/l	5.0	0.28	1
1,2-Dichloroethane	ND		ug/l	1.5	0.47	1
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29	1
Bromodichloromethane	ND		ug/l	1.0	0.28	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34	1
1,3-Dichloropropene, Total	ND		ug/l	1.5	0.31	1
Bromoform	ND		ug/l	1.0	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.20	1
Benzene	ND		ug/l	1.0	0.38	1
Toluene	ND		ug/l	1.0	0.31	1
Ethylbenzene	ND		ug/l	1.0	0.28	1
Chloromethane	ND		ug/l	5.0	1.0	1
Bromomethane	ND		ug/l	5.0	1.2	1
Vinyl chloride	ND		ug/l	1.0	0.38	1
Chloroethane	ND		ug/l	2.0	0.37	1
1,1-Dichloroethene	ND		ug/l	1.0	0.31	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33	1

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

SAMPLE RESULTS

Lab ID:	L2321983-02	Date Collected:	04/24/23 00:00
Client ID:	TRIP BLANK	Date Received:	04/24/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	1.0	0.17	1
Trichloroethene	ND		ug/l	1.0	0.33	1
1,2-Dichlorobenzene	ND		ug/l	5.0	0.28	1
1,3-Dichlorobenzene	ND		ug/l	5.0	0.27	1
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29	1
p/m-Xylene	ND		ug/l	2.0	0.30	1
o-xylene	ND		ug/l	1.0	0.34	1
Xylenes, Total	ND		ug/l	1.0	0.30	1
Styrene	ND		ug/l	1.0	0.37	1
Acetone	ND		ug/l	10	2.4	1
Carbon disulfide	ND		ug/l	5.0	0.28	1
2-Butanone	ND		ug/l	10	1.0	1
Vinyl acetate	ND		ug/l	10	0.41	1
4-Methyl-2-pentanone	ND		ug/l	10	0.19	1
2-Hexanone	ND		ug/l	10	0.55	1
Acrolein	ND		ug/l	8.0	1.8	1
Acrylonitrile	ND		ug/l	10	0.33	1
Dibromomethane	ND		ug/l	1.0	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	90		60-140
Fluorobenzene	102		60-140
4-Bromofluorobenzene	94		60-140

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 04/25/23 11:24
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s):	01-02	Batch:	WG1770952-4		
Methylene chloride	ND	ug/l	1.0	0.56	
1,1-Dichloroethane	ND	ug/l	1.5	0.40	
Chloroform	ND	ug/l	1.0	0.38	
Carbon tetrachloride	ND	ug/l	1.0	0.24	
1,2-Dichloropropane	ND	ug/l	3.5	0.46	
Dibromochloromethane	ND	ug/l	1.0	0.27	
1,1,2-Trichloroethane	ND	ug/l	1.5	0.34	
2-Chloroethylvinyl ether	ND	ug/l	10	0.35	
Tetrachloroethene	ND	ug/l	1.0	0.26	
Chlorobenzene	ND	ug/l	3.5	0.30	
Trichlorofluoromethane	ND	ug/l	5.0	0.28	
1,2-Dichloroethane	ND	ug/l	1.5	0.47	
1,1,1-Trichloroethane	ND	ug/l	2.0	0.29	
Bromodichloromethane	ND	ug/l	1.0	0.28	
trans-1,3-Dichloropropene	ND	ug/l	1.5	0.31	
cis-1,3-Dichloropropene	ND	ug/l	1.5	0.34	
1,3-Dichloropropene, Total	ND	ug/l	1.5	0.31	
Bromoform	ND	ug/l	1.0	0.22	
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	0.20	
Benzene	ND	ug/l	1.0	0.38	
Toluene	ND	ug/l	1.0	0.31	
Ethylbenzene	ND	ug/l	1.0	0.28	
Chloromethane	ND	ug/l	5.0	1.0	
Bromomethane	ND	ug/l	5.0	1.2	
Vinyl chloride	ND	ug/l	1.0	0.38	
Chloroethane	ND	ug/l	2.0	0.37	
1,1-Dichloroethene	ND	ug/l	1.0	0.31	
trans-1,2-Dichloroethene	ND	ug/l	1.5	0.33	
cis-1,2-Dichloroethene	ND	ug/l	1.0	0.17	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 04/25/23 11:24
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s):	01-02	Batch:	WG1770952-4		
Trichloroethene	ND	ug/l	1.0	0.33	
1,2-Dichlorobenzene	ND	ug/l	5.0	0.28	
1,3-Dichlorobenzene	ND	ug/l	5.0	0.27	
1,4-Dichlorobenzene	ND	ug/l	5.0	0.29	
p/m-Xylene	ND	ug/l	2.0	0.30	
o-xylene	ND	ug/l	1.0	0.34	
Xylenes, Total	ND	ug/l	1.0	0.30	
Styrene	ND	ug/l	1.0	0.37	
Acetone	ND	ug/l	10	2.4	
Carbon disulfide	ND	ug/l	5.0	0.28	
2-Butanone	ND	ug/l	10	1.0	
Vinyl acetate	ND	ug/l	10	0.41	
4-Methyl-2-pentanone	ND	ug/l	10	0.19	
2-Hexanone	ND	ug/l	10	0.55	
Acrolein	ND	ug/l	8.0	1.8	
Acrylonitrile	ND	ug/l	10	0.33	
Dibromomethane	ND	ug/l	1.0	0.23	

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	89		60-140
Fluorobenzene	96		60-140
4-Bromofluorobenzene	92		60-140



Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1770952-3								
Methylene chloride	105		-		60-140	-		28
1,1-Dichloroethane	110		-		50-150	-		49
Chloroform	120		-		70-135	-		54
Carbon tetrachloride	110		-		70-130	-		41
1,2-Dichloropropane	110		-		35-165	-		55
Dibromochloromethane	95		-		70-135	-		50
1,1,2-Trichloroethane	95		-		70-130	-		45
2-Chloroethylvinyl ether	95		-		1-225	-		71
Tetrachloroethene	100		-		70-130	-		39
Chlorobenzene	95		-		65-135	-		53
Trichlorofluoromethane	120		-		50-150	-		84
1,2-Dichloroethane	105		-		70-130	-		49
1,1,1-Trichloroethane	110		-		70-130	-		36
Bromodichloromethane	100		-		65-135	-		56
trans-1,3-Dichloropropene	100		-		50-150	-		86
cis-1,3-Dichloropropene	105		-		25-175	-		58
Bromoform	85		-		70-130	-		42
1,1,2,2-Tetrachloroethane	90		-		60-140	-		61
Benzene	110		-		65-135	-		61
Toluene	105		-		70-130	-		41
Ethylbenzene	105		-		60-140	-		63
Chloromethane	125		-		1-205	-		60
Bromomethane	90		-		15-185	-		61

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1770952-3								
Vinyl chloride	130		-		5-195	-		66
Chloroethane	130		-		40-160	-		78
1,1-Dichloroethene	115		-		50-150	-		32
trans-1,2-Dichloroethene	110		-		70-130	-		45
cis-1,2-Dichloroethene	115		-		60-140	-		30
Trichloroethene	100		-		65-135	-		48
1,2-Dichlorobenzene	90		-		65-135	-		57
1,3-Dichlorobenzene	85		-		70-130	-		43
1,4-Dichlorobenzene	90		-		65-135	-		57
p/m-Xylene	100		-		60-140	-		30
o-xylene	90		-		60-140	-		30
Styrene	90		-		60-140	-		30
Acetone	104		-		40-160	-		30
Carbon disulfide	110		-		60-140	-		30
2-Butanone	122		-		60-140	-		30
Vinyl acetate	102		-		60-140	-		30
4-Methyl-2-pentanone	100		-		60-140	-		30
2-Hexanone	102		-		60-140	-		30
Acrolein	98		-		60-140	-		30
Acrylonitrile	100		-		60-140	-		60
Dibromomethane	90		-		70-130	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1770952-3								
<i>Surrogate</i>	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>			
Pentafluorobenzene	96				60-140			
Fluorobenzene	95				60-140			
4-Bromofluorobenzene	93				60-140			

SEMIVOLATILES

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

SAMPLE RESULTS

Lab ID: L2321983-01
Client ID: DEP-01
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/24/23 14:45
Date Received: 04/24/23
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 129,625.1
Analytical Date: 04/25/23 15:14
Analyst: JG

Extraction Method: EPA 625.1
Extraction Date: 04/25/23 05:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND	ug/l	2.00	0.407	1	
Benzidine ¹	ND	ug/l	20.0	12.1	1	
1,2,4-Trichlorobenzene	ND	ug/l	5.00	1.49	1	
Hexachlorobenzene	ND	ug/l	2.00	0.952	1	
Bis(2-chloroethyl)ether	ND	ug/l	2.00	0.600	1	
2-Chloronaphthalene	ND	ug/l	2.00	0.319	1	
3,3'-Dichlorobenzidine	ND	ug/l	5.00	0.457	1	
2,4-Dinitrotoluene	ND	ug/l	5.00	0.636	1	
2,6-Dinitrotoluene	ND	ug/l	5.00	0.631	1	
Azobenzene ¹	ND	ug/l	2.00	0.889	1	
Fluoranthene	ND	ug/l	2.00	0.736	1	
4-Chlorophenyl phenyl ether	ND	ug/l	2.00	0.371	1	
4-Bromophenyl phenyl ether	ND	ug/l	2.00	0.447	1	
Bis(2-chloroisopropyl)ether	ND	ug/l	2.00	0.822	1	
Bis(2-chloroethoxy)methane	ND	ug/l	5.00	0.585	1	
Hexachlorobutadiene	ND	ug/l	2.00	0.921	1	
Hexachlorocyclopentadiene ¹	ND	ug/l	10.0	1.36	1	
Hexachloroethane	ND	ug/l	2.00	0.973	1	
Isophorone	ND	ug/l	5.00	0.546	1	
Naphthalene	ND	ug/l	2.00	0.896	1	
Nitrobenzene	ND	ug/l	2.00	0.788	1	
NDPA/DPA ¹	ND	ug/l	2.00	0.783	1	
n-Nitrosodi-n-propylamine	ND	ug/l	5.00	0.630	1	
Bis(2-ethylhexyl)phthalate	ND	ug/l	2.20	1.70	1	
Butyl benzyl phthalate	ND	ug/l	5.00	0.670	1	
Di-n-butylphthalate	ND	ug/l	5.00	0.631	1	
Di-n-octylphthalate	ND	ug/l	5.00	0.633	1	
Diethyl phthalate	ND	ug/l	5.00	0.717	1	



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

SAMPLE RESULTS

Lab ID:	L2321983-01	Date Collected:	04/24/23 14:45
Client ID:	DEP-01	Date Received:	04/24/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND	ug/l	5.00	1.40	1	
Benzo(a)anthracene	ND	ug/l	2.00	0.665	1	
Benzo(a)pyrene	ND	ug/l	2.00	0.610	1	
Benzo(b)fluoranthene	ND	ug/l	2.00	0.741	1	
Benzo(k)fluoranthene	ND	ug/l	2.00	0.739	1	
Chrysene	ND	ug/l	2.00	0.668	1	
Acenaphthylene	ND	ug/l	2.00	0.930	1	
Anthracene	ND	ug/l	2.00	0.791	1	
Benzo(ghi)perylene	ND	ug/l	2.00	0.672	1	
Fluorene	ND	ug/l	2.00	0.927	1	
Phenanthrene	ND	ug/l	2.00	0.818	1	
Dibenzo(a,h)anthracene	ND	ug/l	2.00	0.687	1	
Indeno(1,2,3-cd)pyrene	ND	ug/l	2.00	0.633	1	
Pyrene	ND	ug/l	2.00	0.728	1	
4-Chloroaniline ¹	ND	ug/l	5.00	0.790	1	
Dibenzofuran ¹	ND	ug/l	2.00	0.373	1	
2-Methylnaphthalene ¹	ND	ug/l	2.00	0.351	1	
n-Nitrosodimethylamine ¹	ND	ug/l	2.00	0.407	1	
2,4,6-Trichlorophenol	ND	ug/l	5.00	0.607	1	
p-Chloro-m-cresol ¹	ND	ug/l	2.00	0.533	1	
2-Chlorophenol	ND	ug/l	2.00	0.513	1	
2,4-Dichlorophenol	ND	ug/l	5.00	0.554	1	
2,4-Dimethylphenol	ND	ug/l	5.00	0.851	1	
2-Nitrophenol	ND	ug/l	5.00	0.604	1	
4-Nitrophenol	ND	ug/l	10.0	0.834	1	
2,4-Dinitrophenol	ND	ug/l	20.0	1.21	1	
4,6-Dinitro-o-cresol	ND	ug/l	10.0	1.20	1	
Pentachlorophenol	ND	ug/l	5.00	0.622	1	
Phenol	ND	ug/l	5.00	0.262	1	
2-Methylphenol ¹	ND	ug/l	5.00	0.773	1	
3-Methylphenol/4-Methylphenol ¹	ND	ug/l	5.00	0.511	1	
2,4,5-Trichlorophenol ¹	ND	ug/l	5.00	0.637	1	
Benzoic Acid ¹	ND	ug/l	50.0	1.17	1	
Benzyl Alcohol ¹	ND	ug/l	2.00	0.490	1	

Project Name: NUHART EAST

Lab Number: L2321983

Project Number: 0201891

Report Date: 05/01/23

SAMPLE RESULTS

Lab ID:	L2321983-01	Date Collected:	04/24/23 14:45
Client ID:	DEP-01	Date Received:	04/24/23
Sample Location:	49 DUPONT ST BROOKLYN, NY	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		25-87
Phenol-d6	19		16-65
Nitrobenzene-d5	63		42-122
2-Fluorobiphenyl	70		46-121
2,4,6-Tribromophenol	64		45-128
4-Terphenyl-d14	70		47-138

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 04/25/23 14:49
Analyst: JG

Extraction Method: EPA 625.1
Extraction Date: 04/25/23 05:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01				Batch:	WG1770677-1
Acenaphthene	ND	ug/l	2.00	0.407	
Benzidine ¹	ND	ug/l	20.0	12.1	
1,2,4-Trichlorobenzene	ND	ug/l	5.00	1.49	
Hexachlorobenzene	ND	ug/l	2.00	0.952	
Bis(2-chloroethyl)ether	ND	ug/l	2.00	0.600	
2-Chloronaphthalene	ND	ug/l	2.00	0.319	
3,3'-Dichlorobenzidine	ND	ug/l	5.00	0.457	
2,4-Dinitrotoluene	ND	ug/l	5.00	0.636	
2,6-Dinitrotoluene	ND	ug/l	5.00	0.631	
Azobenzene ¹	ND	ug/l	2.00	0.889	
Fluoranthene	ND	ug/l	2.00	0.736	
4-Chlorophenyl phenyl ether	ND	ug/l	2.00	0.371	
4-Bromophenyl phenyl ether	ND	ug/l	2.00	0.447	
Bis(2-chloroisopropyl)ether	ND	ug/l	2.00	0.822	
Bis(2-chloroethoxy)methane	ND	ug/l	5.00	0.585	
Hexachlorobutadiene	ND	ug/l	2.00	0.921	
Hexachlorocyclopentadiene ¹	ND	ug/l	10.0	1.36	
Hexachloroethane	ND	ug/l	2.00	0.973	
Isophorone	ND	ug/l	5.00	0.546	
Naphthalene	ND	ug/l	2.00	0.896	
Nitrobenzene	ND	ug/l	2.00	0.788	
NDPA/DPA ¹	ND	ug/l	2.00	0.783	
n-Nitrosodi-n-propylamine	ND	ug/l	5.00	0.630	
Bis(2-ethylhexyl)phthalate	ND	ug/l	2.20	1.70	
Butyl benzyl phthalate	ND	ug/l	5.00	0.670	
Di-n-butylphthalate	ND	ug/l	5.00	0.631	
Di-n-octylphthalate	ND	ug/l	5.00	0.633	
Diethyl phthalate	ND	ug/l	5.00	0.717	
Dimethyl phthalate	ND	ug/l	5.00	1.40	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 04/25/23 14:49
Analyst: JG

Extraction Method: EPA 625.1
Extraction Date: 04/25/23 05:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s):	01		Batch:	WG1770677-1	
Benzo(a)anthracene	ND	ug/l	2.00	0.665	
Benzo(a)pyrene	ND	ug/l	2.00	0.610	
Benzo(b)fluoranthene	ND	ug/l	2.00	0.741	
Benzo(k)fluoranthene	ND	ug/l	2.00	0.739	
Chrysene	ND	ug/l	2.00	0.668	
Acenaphthylene	ND	ug/l	2.00	0.930	
Anthracene	ND	ug/l	2.00	0.791	
Benzo(ghi)perylene	ND	ug/l	2.00	0.672	
Fluorene	ND	ug/l	2.00	0.927	
Phenanthrene	ND	ug/l	2.00	0.818	
Dibenzo(a,h)anthracene	ND	ug/l	2.00	0.687	
Indeno(1,2,3-cd)pyrene	ND	ug/l	2.00	0.633	
Pyrene	ND	ug/l	2.00	0.728	
4-Chloroaniline ¹	ND	ug/l	5.00	0.790	
Dibenzofuran ¹	ND	ug/l	2.00	0.373	
2-Methylnaphthalene ¹	ND	ug/l	2.00	0.351	
n-Nitrosodimethylamine ¹	ND	ug/l	2.00	0.407	
2,4,6-Trichlorophenol	ND	ug/l	5.00	0.607	
p-Chloro-m-cresol ¹	ND	ug/l	2.00	0.533	
2-Chlorophenol	ND	ug/l	2.00	0.513	
2,4-Dichlorophenol	ND	ug/l	5.00	0.554	
2,4-Dimethylphenol	ND	ug/l	5.00	0.851	
2-Nitrophenol	ND	ug/l	5.00	0.604	
4-Nitrophenol	ND	ug/l	10.0	0.834	
2,4-Dinitrophenol	ND	ug/l	20.0	1.21	
4,6-Dinitro-o-cresol	ND	ug/l	10.0	1.20	
Pentachlorophenol	ND	ug/l	5.00	0.622	
Phenol	ND	ug/l	5.00	0.262	
2-Methylphenol ¹	ND	ug/l	5.00	0.773	

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 04/25/23 14:49
Analyst: JG

Extraction Method: EPA 625.1
Extraction Date: 04/25/23 05:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1770677-1					
3-Methylphenol/4-Methylphenol ¹	ND		ug/l	5.00	0.511
2,4,5-Trichlorophenol ¹	ND		ug/l	5.00	0.637
Benzoic Acid ¹	ND		ug/l	50.0	1.17
Benzyl Alcohol ¹	ND		ug/l	2.00	0.490

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	27		25-87
Phenol-d6	17		16-65
Nitrobenzene-d5	50		42-122
2-Fluorobiphenyl	55		46-121
2,4,6-Tribromophenol	47		45-128
4-Terphenyl-d14	56		47-138

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1770677-2								
Acenaphthene	91		-		60-132	-		48
Benzidine ¹	12		-		0-70	-		30
1,2,4-Trichlorobenzene	69		-		57-130	-		50
Hexachlorobenzene	92		-		8-142	-		55
Bis(2-chloroethyl)ether	76		-		43-126	-		108
2-Chloronaphthalene	90		-		65-120	-		24
3,3'-Dichlorobenzidine	44		-		8-213	-		108
2,4-Dinitrotoluene	96		-		48-127	-		42
2,6-Dinitrotoluene	95		-		68-137	-		48
Azobenzene ¹	119	Q	-		44-115	-		23
Fluoranthene	105		-		43-121	-		66
4-Chlorophenyl phenyl ether	92		-		38-145	-		61
4-Bromophenyl phenyl ether	95		-		65-120	-		43
Bis(2-chloroisopropyl)ether	89		-		63-139	-		76
Bis(2-chloroethoxy)methane	88		-		49-165	-		54
Hexachlorobutadiene	67		-		38-120	-		62
Hexachlorocyclopentadiene ¹	70		-		7-118	-		35
Hexachloroethane	63		-		55-120	-		52
Isophorone	85		-		47-180	-		93
Naphthalene	80		-		36-120	-		65
Nitrobenzene	82		-		54-158	-		62
NDPA/DPA ¹	99		-		45-112	-		36
n-Nitrosodi-n-propylamine	89		-		14-198	-		87

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1770677-2								
Bis(2-ethylhexyl)phthalate	113		-		29-137	-		82
Butyl benzyl phthalate	102		-		1-140	-		60
Di-n-butylphthalate	109		-		8-120	-		47
Di-n-octylphthalate	113		-		19-132	-		69
Diethyl phthalate	98		-		1-120	-		100
Dimethyl phthalate	98		-		1-120	-		183
Benzo(a)anthracene	104		-		42-133	-		53
Benzo(a)pyrene	106		-		32-148	-		72
Benzo(b)fluoranthene	106		-		42-140	-		71
Benzo(k)fluoranthene	97		-		25-146	-		63
Chrysene	107		-		44-140	-		87
Acenaphthylene	103		-		54-126	-		74
Anthracene	106		-		43-120	-		66
Benzo(ghi)perylene	93		-		1-195	-		97
Fluorene	97		-		70-120	-		38
Phenanthrene	99		-		65-120	-		39
Dibenzo(a,h)anthracene	95		-		1-200	-		126
Indeno(1,2,3-cd)pyrene	95		-		1-151	-		99
Pyrene	105		-		70-120	-		49
4-Chloroaniline ¹	75		-		10-100	-		53
Dibenzofuran ¹	95		-		23-126	-		22
2-Methylnaphthalene ¹	85		-		40-109	-		18
n-Nitrosodimethylamine ¹	48		-		15-68	-		17

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1770677-2								
2,4,6-Trichlorophenol	95		-		52-129	-		58
p-Chloro-m-cresol ¹	86		-		68-130	-		73
2-Chlorophenol	64		-		36-120	-		61
2,4-Dichlorophenol	81		-		53-122	-		50
2,4-Dimethylphenol	83		-		42-120	-		58
2-Nitrophenol	73		-		45-167	-		55
4-Nitrophenol	49		-		13-129	-		131
2,4-Dinitrophenol	89		-		1-173	-		132
4,6-Dinitro-o-cresol	101		-		56-130	-		203
Pentachlorophenol	85		-		38-152	-		86
Phenol	27		-		17-120	-		64
2-Methylphenol ¹	59		-		38-102	-		23
3-Methylphenol/4-Methylphenol ¹	53		-		35-103	-		26
2,4,5-Trichlorophenol ¹	95		-		47-126	-		28
Benzoic Acid ¹	22		-		2-55	-		27
Benzyl Alcohol ¹	65		-		31-103	-		23

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1770677-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	42				25-87
Phenol-d6	29				16-65
Nitrobenzene-d5	81				42-122
2-Fluorobiphenyl	95				46-121
2,4,6-Tribromophenol	97				45-128
4-Terphenyl-d14	103				47-138

PCBS



Project Name: NUHART EAST

Lab Number: L2321983

Project Number: 0201891

Report Date: 05/01/23

SAMPLE RESULTS

Lab ID: L2321983-01
 Client ID: DEP-01
 Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/24/23 14:45
 Date Received: 04/24/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 127,608.3
 Analytical Date: 04/25/23 13:07
 Analyst: MEO

Extraction Method: EPA 608.3
 Extraction Date: 04/25/23 04:29
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/25/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.050	0.008	1	A
Aroclor 1221	ND		ug/l	0.050	0.011	1	A
Aroclor 1232	ND		ug/l	0.050	0.023	1	A
Aroclor 1242	ND		ug/l	0.050	0.018	1	A
Aroclor 1248	ND		ug/l	0.050	0.023	1	A
Aroclor 1254	ND		ug/l	0.050	0.008	1	A
Aroclor 1260	ND		ug/l	0.050	0.017	1	A
PCBs, Total	ND		ug/l	0.050	0.008	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		37-123	A
Decachlorobiphenyl	67		38-114	A
2,4,5,6-Tetrachloro-m-xylene	69		37-123	B
Decachlorobiphenyl	78		38-114	B

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 127,608.3
Analytical Date: 04/25/23 13:15
Analyst: MEO

Extraction Method: EPA 608.3
Extraction Date: 04/25/23 04:29
Cleanup Method: EPA 3665A
Cleanup Date: 04/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01				Batch: WG1770672-1		
Aroclor 1016	ND		ug/l	0.050	0.008	A
Aroclor 1221	ND		ug/l	0.050	0.011	A
Aroclor 1232	ND		ug/l	0.050	0.023	A
Aroclor 1242	ND		ug/l	0.050	0.018	A
Aroclor 1248	ND		ug/l	0.050	0.023	A
Aroclor 1254	ND		ug/l	0.050	0.008	A
Aroclor 1260	ND		ug/l	0.050	0.017	A
PCBs, Total	ND		ug/l	0.050	0.008	A

Surrogate	%Recovery	Acceptance Criteria		
		Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		37-123	A
Decachlorobiphenyl	77		38-114	A
2,4,5,6-Tetrachloro-m-xylene	66		37-123	B
Decachlorobiphenyl	81		38-114	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>	<i>Column</i>
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1770672-2									
Aroclor 1016	71	-	-	-	50-140	-	-	36	A
Aroclor 1260	70	-	-	-	8-140	-	-	38	A

Surrogate	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	64	37-123	A			
Decachlorobiphenyl	69	-	-	-	38-114	A
2,4,5,6-Tetrachloro-m-xylene	64	-	-	-	37-123	B
Decachlorobiphenyl	70	-	-	-	38-114	B

METALS



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

SAMPLE RESULTS

Lab ID: L2321983-01
Client ID: DEP-01
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/24/23 14:45
Date Received: 04/24/23
Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	04/25/23 07:36	04/25/23 12:50	EPA 3005A	19,200.7	JMF
Copper, Total	0.0040	J	mg/l	0.0100	0.0022	1	04/25/23 07:36	04/25/23 12:50	EPA 3005A	19,200.7	JMF
Lead, Total	0.0088	J	mg/l	0.0100	0.0027	1	04/25/23 07:36	04/25/23 12:50	EPA 3005A	19,200.7	JMF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	04/25/23 08:28	04/25/23 12:37	EPA 245.1	3,245.1	DMB
Nickel, Total	0.0034	J	mg/l	0.0250	0.0024	1	04/25/23 07:36	04/25/23 12:50	EPA 3005A	19,200.7	JMF
Zinc, Total	0.0058		mg/l	0.0050	0.0021	1	04/25/23 07:36	04/25/23 12:50	EPA 3005A	19,200.7	JMF

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1770681-1									
Cadmium, Total	ND	mg/l	0.0050	0.0010	1	04/25/23 07:36	04/25/23 12:40	19,200.7	JMF
Copper, Total	ND	mg/l	0.0100	0.0022	1	04/25/23 07:36	04/25/23 12:40	19,200.7	JMF
Lead, Total	ND	mg/l	0.0100	0.0027	1	04/25/23 07:36	04/25/23 12:40	19,200.7	JMF
Nickel, Total	ND	mg/l	0.0250	0.0024	1	04/25/23 07:36	04/25/23 12:40	19,200.7	JMF
Zinc, Total	ND	mg/l	0.0050	0.0021	1	04/25/23 07:36	04/25/23 12:40	19,200.7	JMF

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1770682-1									
Mercury, Total	ND	mg/l	0.00020	0.00009	1	04/25/23 08:28	04/25/23 12:20	3,245.1	DMB

Prep Information

Digestion Method: EPA 245.1

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1770681-2								
Cadmium, Total	103	-	-	-	85-115	-	-	-
Copper, Total	106	-	-	-	85-115	-	-	-
Lead, Total	97	-	-	-	85-115	-	-	-
Nickel, Total	98	-	-	-	85-115	-	-	-
Zinc, Total	96	-	-	-	85-115	-	-	-
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1770682-2								
Mercury, Total	90	-	-	-	85-115	-	-	-

Matrix Spike Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1770681-3 QC Sample: L2320400-40 Client ID: MS Sample												
Cadmium, Total	ND	0.053	0.0561	106	-	-	-	-	75-125	-	-	20
Copper, Total	0.136	0.25	0.401	106	-	-	-	-	75-125	-	-	20
Lead, Total	0.293	0.53	0.800	96	-	-	-	-	75-125	-	-	20
Nickel, Total	0.0055J	0.5	0.503	101	-	-	-	-	75-125	-	-	20
Zinc, Total	0.422	0.5	0.903	96	-	-	-	-	75-125	-	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1770681-7 QC Sample: L2321280-01 Client ID: MS Sample												
Cadmium, Total	ND	0.053	0.0721	136	Q	-	-	-	75-125	-	-	20
Copper, Total	0.340	0.25	0.686	138	Q	-	-	-	75-125	-	-	20
Lead, Total	ND	0.53	0.666	126	Q	-	-	-	75-125	-	-	20
Nickel, Total	0.036J	0.5	0.655	131	Q	-	-	-	75-125	-	-	20
Zinc, Total	0.254	0.5	0.993	148	Q	-	-	-	75-125	-	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1770682-3 QC Sample: L2321357-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00461	92	-	-	-	-	70-130	-	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1770681-4 QC Sample: L2320400-40 Client ID: DUP Sample						
Cadmium, Total	ND	ND	mg/l	NC		20
Copper, Total	0.136	0.140	mg/l	3		20
Lead, Total	0.293	0.298	mg/l	2		20
Nickel, Total	0.0055J	0.0068J	mg/l	NC		20
Zinc, Total	0.422	0.426	mg/l	1		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1770681-8 QC Sample: L2321280-01 Client ID: DUP Sample						
Lead, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.254	0.253	mg/l	0		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1770682-4 QC Sample: L2321357-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

Project Name: NUHART EAST
Project Number: 0201891

**Lab Serial Dilution
Analysis
Batch Quality Control**

Lab Number: L2321983
Report Date: 05/01/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1770681-10 QC Sample: L2321280-01 Client ID: DUP Sample						
Zinc, Total	0.254	0.285	mg/l	12		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1770681-6 QC Sample: L2320400-40 Client ID: DUP Sample						
Lead, Total	0.293	0.295	mg/l	1		20
Zinc, Total	0.422	0.415	mg/l	2		20

INORGANICS & MISCELLANEOUS



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

SAMPLE RESULTS

Lab ID: L2321983-01
Client ID: DEP-01
Sample Location: 49 DUPONT ST BROOKLYN, NY

Date Collected: 04/24/23 14:45
Date Received: 04/24/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	42.		mg/l	13	NA	1.3	-	04/25/23 03:48	121,2540B	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	04/25/23 04:21	121,2540D	MCU
Chloride	14.		mg/l	1.0	0.89	1	-	04/25/23 14:53	121,4500CL-E	MRM
pH (H)	7.31		SU	-	NA	1	-	04/25/23 08:30	121,4500H+-B	OCF
Nitrogen, Nitrate/Nitrite	0.12		mg/l	0.10	0.046	1	-	04/25/23 07:18	44,353.2	KAF
Total Nitrogen	ND		mg/l	0.30	0.30	1	-	04/25/23 16:10	107,-	MRM
Nitrogen, Total Kjeldahl	0.248	J	mg/l	0.300	0.066	1	04/25/23 06:00	04/25/23 15:19	121,4500NH3-H	AAA
CBOD, 5 day	ND		mg/l	2.0	NA	1	04/26/23 13:15	05/01/23 13:00	121,5210B	MKT
Non-Polar Material By EPA 1664	ND		mg/l	4.00	1.24	1	04/25/23 10:53	04/25/23 13:00	140,1664B	JGM
Flash Point	>150		deg F	70	NA	1	-	04/25/23 09:28	1,1010A	AAA
Chromium, Hexavalent	0.003	J	mg/l	0.010	0.003	1	04/25/23 10:30	04/25/23 11:08	121,3500CR-B	KEP



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1770642-1										
Nitrogen, Nitrate/Nitrite	ND	mg/l	0.10	0.046	1	-	04/25/23 03:37	44,353.2	KAF	
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1770659-1										
Solids, Total	ND	mg/l	10	NA	1	-	04/25/23 03:48	121,2540B	DEW	
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1770660-1										
Nitrogen, Total Kjeldahl	0.094	J	mg/l	0.300	0.022	1	04/25/23 06:00	04/25/23 15:13	121,4500NH3-H	AAA
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1770673-1										
Solids, Total Suspended	ND	mg/l	5.0	NA	1	-	04/25/23 04:21	121,2540D	MCU	
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1770844-1										
Non-Polar Material By EPA 1664	1.30	J	mg/l	4.00	1.24	1	04/25/23 10:53	04/25/23 12:57	140,1664B	JGM
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1770862-1										
Chromium, Hexavalent	ND	mg/l	0.010	0.003	1	04/25/23 10:30	04/25/23 11:02	121,3500CR-B	KEP	
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1770964-1										
Chloride	ND	mg/l	1.0	0.89	1	-	04/25/23 14:44	121,4500CL-E	MRM	
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1771443-1										
CBOD, 5 day	ND	mg/l	2.0	NA	1	04/26/23 13:15	05/01/23 13:00	121,5210B	MKT	



Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1770642-2								
Nitrogen, Nitrate/Nitrite	98	-	-	-	90-110	-	-	-
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1770659-2								
Solids, Total	98	-	-	-	80-120	-	-	-
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1770660-2								
Nitrogen, Total Kjeldahl	95	-	-	-	78-122	-	-	-
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1770673-2								
Solids, Total Suspended	96	-	-	-	80-120	-	-	-
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1770777-1								
pH	100	-	-	-	99-101	-	-	5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1770814-1								
Flash Point	100	-	-	-	96-104	-	-	-
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1770844-2								
Non-Polar Material By EPA 1664	102	-	-	-	64-132	-	-	34

Lab Control Sample Analysis

Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1770862-2					
Chromium, Hexavalent	101	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1770964-2					
Chloride	97	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1771443-2					
CBOD, 5 day	90	-	41-119	-	49

Matrix Spike Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1770642-4 QC Sample: L2320115-01 Client ID: MS Sample												
Nitrogen, Nitrate/Nitrite	2.0	4	5.7	92	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1770660-4 QC Sample: L2321983-01 Client ID: DEP-01												
Nitrogen, Total Kjeldahl	0.248J	8	7.80	98	-	-	-	-	77-111	-	-	24
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1770844-4 QC Sample: L2321856-04 Client ID: MS Sample												
Non-Polar Material By EPA 1664	ND	19.6	7.94	40	Q	-	-	-	64-132	-	-	34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1770862-4 QC Sample: L2321983-01 Client ID: DEP-01												
Chromium, Hexavalent	0.003J	0.1	0.101	101	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1770964-4 QC Sample: L2321983-01 Client ID: DEP-01												
Chloride	14.	20	34	100	-	-	-	-	58-140	-	-	7
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1771443-4 QC Sample: L2321983-01 Client ID: DEP-01												
CBOD, 5 day	ND	100	79	79	-	-	-	-	36-125	-	-	49

Lab Duplicate Analysis
Batch Quality Control

Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1770642-3 QC Sample: L2320115-01 Client ID: DUP Sample						
Nitrogen, Nitrate/Nitrite	2.0	2.0	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1770659-3 QC Sample: L2321983-01 Client ID: DEP-01						
Solids, Total	42.	45	mg/l	7		16
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1770660-3 QC Sample: L2321983-01 Client ID: DEP-01						
Nitrogen, Total Kjeldahl	0.248J	0.342	mg/l	NC		24
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1770673-3 QC Sample: L2302665-101 Client ID: DUP Sample						
Solids, Total Suspended	28.	30	mg/l	7		32
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1770777-2 QC Sample: L2321983-01 Client ID: DEP-01						
pH (H)	7.31	7.25	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1770844-3 QC Sample: L2321856-03 Client ID: DUP Sample						
Non-Polar Material By EPA 1664	ND	ND	mg/l	NC		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1770862-3 QC Sample: L2321983-01 Client ID: DEP-01						
Chromium, Hexavalent	0.003J	0.003J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1770964-3 QC Sample: L2321983-01 Client ID: DEP-01						
Chloride	14.	14	mg/l	0		7
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1771443-3 QC Sample: L2321983-01 Client ID: DEP-01						
CBOD, 5 day	ND	ND	mg/l	NC		49

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2321983-01A	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624-NYDEP(3)
L2321983-01B	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624-NYDEP(3)
L2321983-01C	Vial Na2S2O3 preserved	A	NA		2.4	Y	Absent		624-NYDEP(3)
L2321983-01D	Plastic 250ml H2SO4 preserved	A	<2	<2	2.4	Y	Absent		TKN-4500(28),NO3/NO2-353(28),TNITROGEN(28)
L2321983-01E	Amber 250ml unpreserved	A	7	7	2.4	Y	Absent		FLASH()
L2321983-01F	Plastic 250ml HNO3 preserved	A	<2	<2	2.4	Y	Absent		NI-UI(180),ZN-UI(180),HG-U(28),CD-UI(180),CU-UI(180),PB-UI(180)
L2321983-01G	Plastic 950ml unpreserved	A	7	7	2.4	Y	Absent		TSS-2540(7)
L2321983-01H	Plastic 950ml unpreserved	A	7	7	2.4	Y	Absent		CBOD5(2)
L2321983-01J	Plastic 950ml unpreserved	A	7	7	2.4	Y	Absent		TSC-2540(7),CL-4500(28),HEXCR-3500(1),PH-4500(.01)
L2321983-01K	Amber 1000ml Na2S2O3	A	7	7	2.4	Y	Absent		NYPCB-608-2L(365)
L2321983-01L	Amber 1000ml Na2S2O3	A	7	7	2.4	Y	Absent		NYPCB-608-2L(365)
L2321983-01M	Amber 1000ml Na2S2O3	A	7	7	2.4	Y	Absent		NYPCB-608-2L(365)
L2321983-01N	Amber 1000ml Na2S2O3	A	7	7	2.4	Y	Absent		NYPCB-608-2L(365)
L2321983-01O	Amber 1000ml Na2S2O3	A	7	7	2.4	Y	Absent		625-NYDEP(7)
L2321983-01P	Amber 1000ml Na2S2O3	A	7	7	2.4	Y	Absent		625-NYDEP(7)
L2321983-01Q	Amber 1000ml HCl preserved	A	NA		2.4	Y	Absent		NYTPH-1664(28)
L2321983-01R	Amber 1000ml HCl preserved	A	NA		2.4	Y	Absent		NYTPH-1664(28)
L2321983-02A	Vial HCl preserved	A	NA		2.4	Y	Absent		624-NYDEP(14)
L2321983-02B	Vial HCl preserved	A	NA		2.4	Y	Absent		624-NYDEP(14)

*Values in parentheses indicate holding time in days

Project Name: NUHART EAST
Project Number: 0201891

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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: NUHART EAST
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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: NUHART EAST
Project Number: 0201891

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Data Qualifiers

Identified Compounds (TICs).

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: NUHART EAST
Project Number: 0201891

Lab Number: L2321983
Report Date: 05/01/23

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 127 Method 608.3: Organochlorine Pesticides and PCBs by GC/HSD, EPA 821-R-16-009, December 2016.
- 128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.
- 129 Method 625.1: Base/Neutrals and Acids by GC/MS, EPA 821-R-16-007, December 2016.
- 140 Method 1664, Revision B: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-10-001, February 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C**, **SM4500CN-CE**, EPA 180.1, **SM2130B**, **SM4500CI-D**, **SM2320B**, **SM2540C**, **SM4500H-B**, **SM4500NO2-B**

EPA 332: Perchlorate; **EPA 524.2**: THMs and VOCs; **EPA 504.1**: EDB, DBCP.

Microbiology: **SM9215B**; **SM9223-P/A**, **SM9223B-Colilert-QT**, **SM9222D**.

Non-Potable Water

SM4500H,B, EPA 120.1, **SM2510B**, **SM2540C**, **SM2320B**, **SM4500CL-E**, **SM4500F-BC**, **SM4500NH3-BH**: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, **EPA 351.1**, **SM4500NO3-F**, **EPA 353.2**: Nitrate-N, **SM4500P-E**, **SM4500P-B**, **E**, **SM4500SO4-E**, **SM5220D**, EPA 410.4, **SM5210B**, **SM5310C**, **SM4500CL-D**, EPA 1664, **EPA 420.1**, **SM4500-CN-CE**, **SM2540D**, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

Microbiology: **SM9223B-Colilert-QT**; **Enterolert-QT**, **SM9221E**, EPA 1600, **EPA 1603**, **SM9222D**.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8**: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg. **EPA 522**, **EPA 537.1**.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

ANALYTICAL

PAGE 1 OF 1

Westborough, MA	Mansfield, MA	Project Name: <i>NuHart East</i>	<input type="checkbox"/> FAX	<input type="checkbox"/> EMAIL	<input type="checkbox"/> Same as Client Info	PO #:													
TEL: 508-888-8220	TEL: 508-822-6300	Project Location: 49 Deant St, Brooklyn NY	<input checked="" type="checkbox"/> AOE	<input type="checkbox"/> Add'l Deliverables															
FAX: 508-888-8183	FAX: 508-822-4288	Project #: 0201891	Regulatory Requirements/Report Limits																
Client Information		Project Manager: Mari Conlon	State/Fed Program		Criteria														
Client: H&L of New York	Address: 237 W 35th Street	ALPHA Quote #:	NYC Sanitary and Combined Sewer Discharge	NYC-SEWER															
Phone:		Turn Around Time:	MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS																
Fax: JCommiss @ haleydrich.com		<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush (ONLY IF PRE-APPROVED)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Are MCP Analytical Methods Required?													
Email: mconlon@haleydrich.com		24 Hour Turn		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Are CT RCP (Reasonable Confidence Protocols) Required?													
ANALYSIS							SAMPLE HANDLING												
<input type="checkbox"/> These samples have been previously analyzed by Alpha							Filtration <input type="checkbox"/> None <input type="checkbox"/> Not Needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below)												
Other Project Specific Requirements/Comments/Detection Limits: Please see attached list. PCB reporting limit must be 65ppt. See attached list.							Sample Specific Comments												
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	VOC 624 (See Attached List)	Total Metals (See Attached List)	Chloride, CBOD, Total Solids	Total Suspended Solids	pH, HexChrom	Non Polar Material - 1664	TKN, NO3/NO2	ABN 625 (See Attached List)	PCB 608 - Must achieve 65ppt RL	Flash Point	SVOCs			
		Date	Time																
21983-01	DEP-01	4/24/23	1445	Water	SS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18		
	-02 tripblank	4/24/23	-	AQ	OC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1		
ARE ANSWER QUESTIONS ABOVE?						Container Type	V	P	P	P	P	A	P	A	A	A	-	-	
						Preservative	H	C	A	A	A	B	D	H	H	-	-	-	
						Reinquished By:		Date/Time		Received By:		Date/Time		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.					
						<i>J. Commiss</i>		4/24/23 1445		<i>Deant</i>		4/24/23 1500							<i>Deant</i>
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<i>John Tamm</i>	4/24/23 11:01	<i>John Tamm AAL</i>	4/24/23 15:00
<i>John Tamm</i>	4/24/23 17:00	<i>John Tamm AAL</i>	4/24/23 17:05
<i>John Tamm AAL</i>	4/24/23	<i>John Tamm AAL</i>	4/24/23 20:00