October 9, 2023

Port Washington Water District
PWS ID No. NY2912267
MCL Deferral for 1,4-Dioxane
Quarterly Report – Third Quarter 2023

Introduction

On behalf of the Port Washington Water District (PWWD or District), D&B Engineers and Architects (D&B) has prepared this document in accordance with the requirements of the New York State Department of Health (NYSDOH) for public water suppliers who have been granted deferrals from maximum contaminant level (MCL) violations for 1,4-dioxane. The District was granted an MCL deferral for 1,4-dioxane in 2020. The District was granted a deferral because it has been proactive in its efforts to establish and implement an action plan for managing the above-referenced compound.

While very effort has been made to shorten the initial duration of each project, circumstances beyond the District's control impacting contractors and water suppliers, locally and nationwide, have made the District's goal of completing work ahead of schedule impossible. The last three years have been a time of unprecedented disruption in the supply chain of chemical supplies, equipment, infrastructure components, pipe, and materials (e.g., steel), and treatment systems. Shortages of necessary items have significantly impacted the District, primarily in terms of price increases, decreased availability, and longer lead times.

In addition, due to the rapidly changing regulatory environment through an expanded list of contaminants with lower regulatory advisory levels or MCLs, local and state regulators are experiencing a large number of capital project submissions, in addition to their regular workload. This increased workload has led to longer regulatory review times of engineering reports, detailed design plans, and specifications. In many cases, these factors have caused delays in obtaining final regulatory approval, commencing construction, procuring equipment and necessary components, and conforming to proposed construction schedules.

The District has done everything within its power to adhere to the project schedules approved in the original deferral request, as described in the previous quarterly deferral reports. Each of the three required treatment projects had initial schedules that extended beyond the initial 24-month deferral period, due to necessary steps required to complete the design, permitting, bidding, construction, and startup testing. In addition, the Morley Park Station project required obtaining property through the parkland alienation process in order to accommodate the new treatment building. The full impact of supply chain issues and delays was not known at the time of the original compliance deferrals and due to these regulatory changes, these delays were expected to become worse before improving because of increased national demand.

Recognizing these exceptional circumstances, the District requested and received a 12-month deferral renewal which extended the MCL compliance deadline to August 25, 2023. The deferral renewal is now expired. However, the aforementioned supply chain issues, increased material and

labor costs, and continued demand have made it difficult to complete some of the projects and additional time is necessary to achieve compliance with the MCL regulations. As such, the District has requested a 12-month deferral exemption to extend the MCL compliance deadline to August 25, 2024 which is to be reserved as one of a series of strategies to address high water demand periods consistent with the average of the District's maximum day demands over the last ten years. This exemption is requested under Part 5-1.92 of the New York State Sanitary Code. The intent of the exemption is to extend the compliance deadline an additional year to reflect the hardship that these delays have had upon the project completion schedule.

The District's goal, as always, is to provide an adequate supply of potable water to its consumers and it has done everything in its ability to move forward on the treatment projects to further that goal and meet consumer demands. These impacts of the last three years are expected to continue for the foreseeable future and will most likely affect the ability of the District to conform to the project schedules outlined in the original deferral request, even with the requested deferral exemption.

The enclosed is a report describing the PWWD's progress towards maintaining the highest quality of water for our customers. Updated schedules for each project are contained in **Attachment A**.

Corrective Action Plan Milestones

Hewlett Station Well 4

Construction of the new building, including installation of the advanced oxidation process (AOP) treatment system to be used for the removal of 1,4-dioxane, is complete and undergoing startup testing. The new booster pump building is complete and the associated pump system has been installed, tested, and started up. In addition, the granular activated carbon (GAC) vessels have been rehabilitated and filled with new carbon media. The GAC vessels have been backwashed with system water and successfully sampled for all necessary return to service water quality parameters.

As noted in the last quarterly report and in the Introduction of this report, obtaining regulatory approval took longer than initially anticipated and, in conjunction with the continued supply chain issues, the schedule of the project was delayed. As noted, the construction is currently substantially completed and the full plant is expected to be operational with the AOP unit in service in November 2023.

Christopher Morley Park Station Wells 8, 9, and 11

The general, electrical, and plumbing construction contracts for the project were executed on June 10, 2022. Construction has been on-going. The entire new building foundation for the structure has been completed and the new GAC vessels have been delivered and installed. The new AOP reactors were delivered in late July 2023 and are currently staged/protected inside the building. Masonry work is proceeding and will be completed in early October 2023. As noted in the Introduction, obtaining regulatory approval took longer than initially anticipated and, in conjunction with the continued supply chain issues, the schedule of the project was delayed. The construction is scheduled to be substantially completed in the fourth quarter of 2024.

Stonytown Station Well 10

The project is currently in the permitting and pre-construction phase. The general, electrical, and plumbing construction contracts were executed and the Notices to Proceed were issued to contractors in February 2023. The construction could not begin as the District was working to return the Hewlett Well 4 facility to service. The District could not meet summer peak demands with both wells out of service. Demolition and removals, followed by the excavation necessary for the new treatment building foundation, is expected to begin onsite in October 2023. As described in previous quarterly reports, the scope of this project had to be adjusted to include treatment for nitrate removal. The construction is scheduled to be completed in the second quarter of 2025.

Public Notification

In accordance with the terms of the deferral, the PWWD has maintained an open line of communication with the public regarding its deferral. The deferral public notification documentation is still featured prominently on the District website, as are previous quarterly reports.

Analytical Sampling

Sample results for the wells for which deferrals were granted (Hewlett Well 4, Christopher Morley Park Wells 8, 9, and 11, and Stonytown Well 10), taken during the third quarter of 2023, are listed in the below table. Full laboratory reports for each sample are contained in **Attachment B**.

1,4-Dioxane (parts per billion, ppb)

Well	Date		
	July 2023	**August 2023**	**September 2023**
Hewlett Well 4 (N-2052)	NS	1.3	0.96; 0.99
Christopher Morley Park Well 8 (N-7551)	1.5; 1.5	NS	NS
Christopher Morley Park Well 9 (N-7552)	12.6	12.6; 0.23	9.4
Christopher Morley Park Well 11 (N-13510)	0.26; 0.28	NS	NS
Stonytown Well 10 (N-9809)	0.79	0.74	0.62

NS - Not Sampled

Conclusion

As demonstrated above, the Port Washington Water District is actively working to preserve the quality of water for its customers and comply with the requirements put forth by the NYSDOH.

The District looks forward to continuing to work towards completion of its treatment facilities. Should you have any questions, please contact the District at 516-767-0171 or visit the website at www.pwwd.org.

Very truly yours,

Board of Commissioners
Port Washington Water District

Enclosures

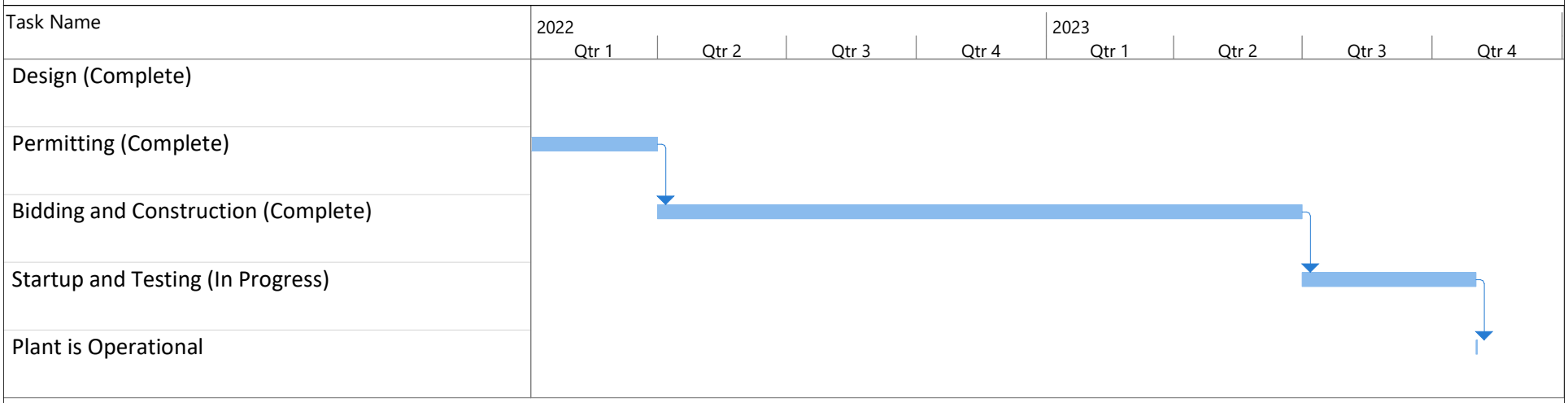
cc: K. Wheeler (NYSDOH)
B. Rogers (NYSDOH)
W. Provoncha (NCDH)
P. Young (NCDH)
R. Putnam (NCDH)
P. Prignano (PWWD)
W. Merklin (D&B)
M. Savarese (D&B)
L. Ortiz (D&B)
P. Connell (D&B)

ATTACHMENT A

Project Schedules Associated with MCL Deferral

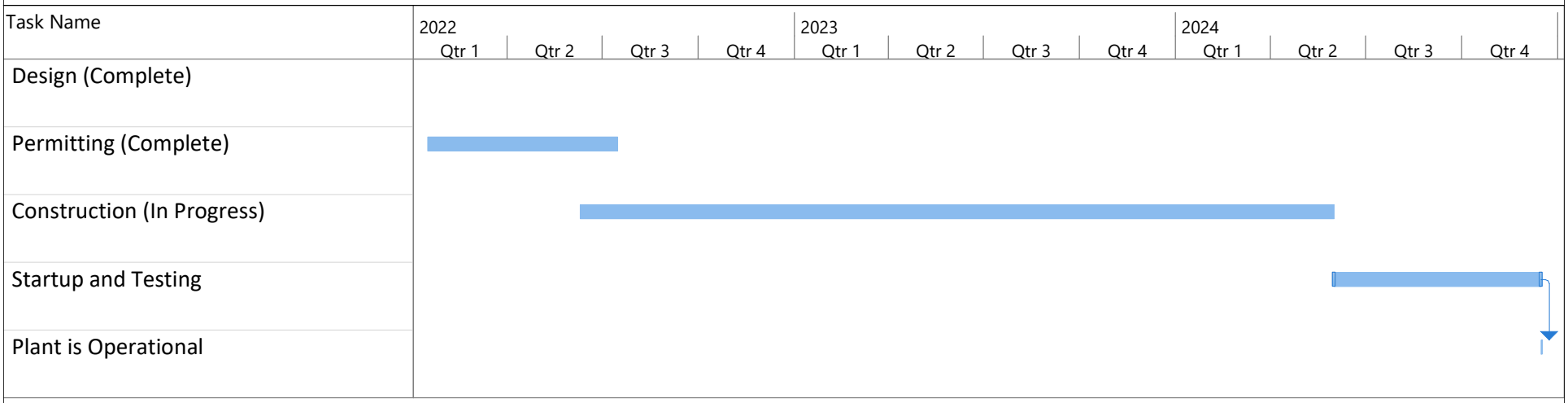
Port Washington Water District
MCL Deferral
Quarterly Report - Q3 2023

Hewlett Well 4
AOP Project Schedule



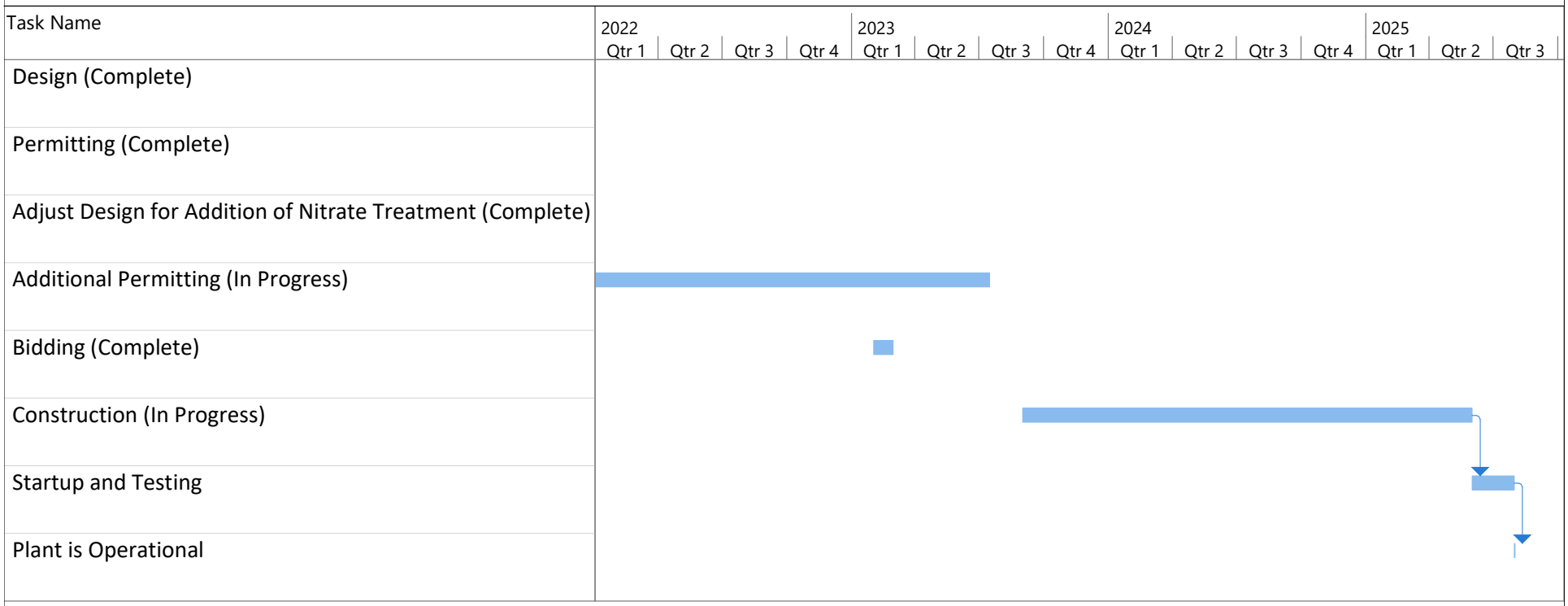
Port Washington Water District
MCL Deferral
Quarterly Report - Q3 2023

Christopher Morley Park Station
AOP Project Schedule



Port Washington Water District
MCL Deferral
Quarterly Report - Q3 2023

Stonytown Well 10
AOP Project Schedule



ATTACHMENT B

Water Quality Data

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70263603001
Client Sample ID.: N-07551

Federal ID : 2912267
Collected : 07/17/2023 09:22 AM Point N-07551
Received : 07/17/2023 03:05 PM Location Morley Pk 8
Collected By CLIENT No Hls

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 07/21/2023 1:56 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	**1.5***		1	ug/L	1	07/22/2023 5:18 AM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	115%		1	%REC		07/22/2023 5:18 AM	001 AG2R1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 07/28/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70263603

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

WO#: 70263603

70263603

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Sample Request Form
PUBLIC WATER SUPPLIER

Rel: [illegible] 7-17-23 1505

Date: 7 / 17 / 23

Collected By: Richard [illegible]

Accepted By: [illegible] 7-17-23 1245

Cooler Temp: 5.7 °C

☐ WELL OFF LINE _____

☑ WELL RUN TO SYSTEM _____

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Italo J. Vacchio, Superintendent

Address: Port Washington Water District
P.O. Box 432
38 Sandy Hollow Road
Port Washington, NY 11050

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
7/17/23 9:22	GW	Morley 8 N-07551	RW	O	RO			Dioxane, Method 533 w F	Field Blank

Remarks:

Client: PWW

Profile #: 5141

Work ID: ~~POC 7/17~~ AS 7/17 1,4DIOXANE/ PFAS COC Page 7/17 of

☒ Use Point Number Spreadsheet

☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP35	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
1																				2																1															
2																																				1															
3																																																			
4																																																			
5																																																			
6																																																			
7																																																			
8																																																			
9																																																			
10																																																			
11																																																			

Container Codes

Glass				Plastic		Misc.	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic	SP5T	120mL Coliform Na Thio
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	R	Terracore Kit
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic	WG2U	2oz Unpreserved Jar
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	GN	General
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma	WP	Wipe
		AG1A	(NH4Cl)	BP35	250mL Ammonium Acetate		
WG9O	8oz clear soil jar			BP3R	250mL NH4SO4-NH4OH		
WG4O	4oz clear soil jar			BP1Z	1L NaOH, Zn Acetate		
				BP1N	1L HNO3 plastic		
				BP1B	Na Thiosulfate Amber Bottle		

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials AS

Additional Comments

Field Blank Location 2

WO#: 70263603

PM: JSA **Due Date: 07/28/23**

CLIENT: PWW

WO#: 70263603
PM: JSA **Due Date: 07/28/23**
CLIENT: PWW

Client Name: PWWD Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No Temperature Blank Present: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH188 Correction Factor: -0.3 ☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 5.3 Cooler Temperature Corrected(°C): 5.0 Date/Time 5035A kits placed in freezer JK 7-7-23

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☐Yes	☑No		12. Time on COC and bottle label differs

Date and Initials of person checking preservation:

All containers needing preservation have been pH paper Lot #	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	☑N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 27, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: 1,4 DIOXANE/PFAS 7/17
Client Job Number:
Project Number: 70263603
Laboratory Work Order Number: 23G2999

Enclosed are results of analyses for samples as received by the laboratory on July 20, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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B346875 8

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 7/27/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70263603

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23G2999

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1,4 DIOXANE/PFAS 7/17

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-07551	23G2999-01	Drinking Water		EPA 533	
N-07551 FB	23G2999-02	Field Blank		EPA 533	

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan E. Kelley
Reporting Specialist

con-test® A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4 DIOXANE/PFAS 7/17 Sample Description: Work Order: 23G2999

Date Received: 7/20/2023

Field Sample #: N-07551 Sampled: 7/17/2023 09:22

Sample ID: 23G2999-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.4	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluoropentanoic acid (PFPeA)	4.2	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluorohexanoic acid (PFHxA)	3.6	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluorohexanesulfonic acid (PFHxS)	4.1	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluoroheptanoic acid (PFHpA)	2.9	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluorooctanoic acid (PFOA)	8.4	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluorooctanesulfonic acid (PFOS)	5.0	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW
Perfluorononanoic acid (PFNA)	3.1	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:21	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	91.8	50-200		7/26/23 16:21
M2-8:2FTS	130	50-200		7/26/23 16:21
MPFBA	86.0	50-200		7/26/23 16:21
M3HFPO-DA	61.0	50-200		7/26/23 16:21
M6PFDA	75.1	50-200		7/26/23 16:21
M3PFBS	91.4	50-200		7/26/23 16:21
M7PFUnA	83.3	50-200		7/26/23 16:21
M2-6:2FTS	95.5	50-200		7/26/23 16:21
M5PFPeA	88.0	50-200		7/26/23 16:21
M5PFHxA	73.9	50-200		7/26/23 16:21
M3PFHxS	96.6	50-200		7/26/23 16:21
M4PFHpA	73.0	50-200		7/26/23 16:21
M8PFOA	74.3	50-200		7/26/23 16:21
M8PFOS	100	50-200		7/26/23 16:21
M9PFNA	67.6	50-200		7/26/23 16:21
MPFDoA	79.1	50-200		7/26/23 16:21

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Project Location: 1,4 DIOXANE/PFAS 7/17 Sample Description: Work Order: 23G2999

Date Received: 7/20/2023

Field Sample #: N-07551 FB Sampled: 7/17/2023 09:22

Sample ID: 23G2999-02

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:29	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	91.2	50-200		7/26/23 16:29
M2-8:2FTS	113	50-200		7/26/23 16:29
MPFBA	113	50-200		7/26/23 16:29
M3HFPO-DA	96.3	50-200		7/26/23 16:29
M6PFDA	101	50-200		7/26/23 16:29
M3PFBS	95.0	50-200		7/26/23 16:29
M7PFUnA	105	50-200		7/26/23 16:29
M2-6:2FTS	115	50-200		7/26/23 16:29
M5PFPeA	113	50-200		7/26/23 16:29
M5PFHxA	104	50-200		7/26/23 16:29
M3PFHxS	103	50-200		7/26/23 16:29
M4PFHpA	106	50-200		7/26/23 16:29
M8PFOA	105	50-200		7/26/23 16:29
M8PFOS	101	50-200		7/26/23 16:29
M9PFNA	107	50-200		7/26/23 16:29
MPFDoA	94.5	50-200		7/26/23 16:29

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Sample Extraction Data

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G2999-01 [N-07551]	B346875	276	1.00	07/25/23
23G2999-02 [N-07551 FB]	B346875	276	1.00	07/25/23

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346875 - EPA 533										
Blank (B346875-BLK1)				Prepared: 07/25/23 Analyzed: 07/26/23						
Perfluorobutanoic acid (PFBA)	ND	1.9	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.9	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.9	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.9	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.9	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.9	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.9	ng/L							
Surrogate: M2-4:2FTS	*42.0*		ng/L	36.4		116	50-200			
Surrogate: M2-8:2FTS	*61.8*		ng/L	37.2		166	50-200			
Surrogate: MPFBA	*44.1*		ng/L	38.8		114	50-200			
Surrogate: M3HFPO-DA	*37.0*		ng/L	38.8		95.4	50-200			
Surrogate: M6PFDA	*45.4*		ng/L	38.8		117	50-200			
Surrogate: M3PFBS	*40.8*		ng/L	36.1		113	50-200			
Surrogate: M7PFUnA	*44.7*		ng/L	38.8		115	50-200			
Surrogate: M2-6:2FTS	*45.9*		ng/L	36.9		125	50-200			
Surrogate: M5PFPeA	*44.8*		ng/L	38.8		116	50-200			
Surrogate: M5PFHxA	*44.1*		ng/L	38.8		114	50-200			
Surrogate: M3PFHxS	*44.0*		ng/L	36.8		120	50-200			
Surrogate: M4PFHpA	*44.3*		ng/L	38.8		114	50-200			
Surrogate: M8PFOA	*45.2*		ng/L	38.8		117	50-200			
Surrogate: M8PFOS	*46.2*		ng/L	37.2		124	50-200			
Surrogate: M9PFNA	*44.3*		ng/L	38.8		114	50-200			
Surrogate: MPFDoA	*43.1*		ng/L	38.8		111	50-200			
LCS (B346875-BS1)				Prepared: 07/25/23 Analyzed: 07/26/23						
Perfluorobutanoic acid (PFBA)	2.16	2.0	ng/L	1.95		111	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.85	2.0	ng/L	1.73		107	50-150			
Perfluoropentanoic acid (PFPeA)	2.05	2.0	ng/L	1.95		105	50-150			
Perfluorohexanoic acid (PFHxA)	2.09	2.0	ng/L	1.95		107	50-150			
11Cl-PF3OUdS (F53B Major)	1.59	2.0	ng/L	1.84		86.3	50-150			
9Cl-PF3ONS (F53B Minor)	1.75	2.0	ng/L	1.82		96.2	50-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346875 - EPA 533										
LCS (B346875-BS1)				Prepared: 07/25/23 Analyzed: 07/26/23						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.66	2.0	ng/L	1.84		90.2	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.80	2.0	ng/L	1.95		92.1	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.61	2.0	ng/L	1.87		86.1	50-150			
Perfluorodecanoic acid (PFDA)	1.83	2.0	ng/L	1.95		94.0	50-150			
Perfluorododecanoic acid (PFDoA)	1.95	2.0	ng/L	1.95		99.9	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.82	2.0	ng/L	1.74		105	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.67	2.0	ng/L	1.86		89.7	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.89	2.0	ng/L	1.82		103	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.04	2.0	ng/L	1.79		114	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.94	2.0	ng/L	1.95		99.3	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.92	2.0	ng/L	1.95		98.4	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.77	2.0	ng/L	1.85		95.5	50-150			
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.0	ng/L	1.83		109	50-150			
Perfluoroundecanoic acid (PFUnA)	1.89	2.0	ng/L	1.95		96.9	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.04	2.0	ng/L	1.95		105	50-150			
Perfluoroheptanoic acid (PFHpA)	2.15	2.0	ng/L	1.95		110	50-150			
Perfluorooctanoic acid (PFOA)	1.94	2.0	ng/L	1.95		99.5	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.77	2.0	ng/L	1.80		97.8	50-150			
Perfluorononanoic acid (PFNA)	1.86	2.0	ng/L	1.95		95.2	50-150			
Surrogate: M2-4:2FTS	*40.2*		ng/L	36.6		110	50-200			
Surrogate: M2-8:2FTS	*62.9*		ng/L	37.5		168	50-200			
Surrogate: MPFBA	*43.2*		ng/L	39.0		111	50-200			
Surrogate: M3HFPO-DA	*37.9*		ng/L	39.0		97.0	50-200			
Surrogate: M6PFDA	*43.7*		ng/L	39.0		112	50-200			
Surrogate: M3PFBS	*39.1*		ng/L	36.4		108	50-200			
Surrogate: M7PFUnA	*44.1*		ng/L	39.0		113	50-200			
Surrogate: M2-6:2FTS	*41.1*		ng/L	37.1		111	50-200			
Surrogate: M5PFPeA	*43.2*		ng/L	39.0		111	50-200			
Surrogate: M5PFHxA	*39.2*		ng/L	39.0		100	50-200			
Surrogate: M3PFHxS	*41.2*		ng/L	37.0		111	50-200			
Surrogate: M4PFHpA	*40.3*		ng/L	39.0		103	50-200			
Surrogate: M8PFOA	*43.9*		ng/L	39.0		113	50-200			
Surrogate: M8PFOS	*45.0*		ng/L	37.4		120	50-200			
Surrogate: M9PFNA	*39.0*		ng/L	39.0		100	50-200			
Surrogate: MPFDoA	*43.1*		ng/L	39.0		110	50-200			
LCS Dup (B346875-BSD1)				Prepared: 07/25/23 Analyzed: 07/26/23						
Perfluorobutanoic acid (PFBA)	2.41	1.9	ng/L	1.95		124	50-150	10.9	50	
Perfluorobutanesulfonic acid (PFBS)	1.99	1.9	ng/L	1.72		116	50-150	7.54	50	
Perfluoropentanoic acid (PFPeA)	2.21	1.9	ng/L	1.95		114	50-150	7.52	50	
Perfluorohexanoic acid (PFHxA)	2.17	1.9	ng/L	1.95		111	50-150	3.89	50	
11Cl-PF3OUdS (F53B Major)	1.58	1.9	ng/L	1.83		86.3	50-150	0.272	50	
9Cl-PF3ONS (F53B Minor)	1.86	1.9	ng/L	1.81		103	50-150	6.32	50	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.73	1.9	ng/L	1.83		94.4	50-150	4.23	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.79	1.9	ng/L	1.95		92.0	50-150	0.341	50	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.30	1.9	ng/L	1.87		123	50-150	35.2	50	
Perfluorodecanoic acid (PFDA)	2.12	1.9	ng/L	1.95		109	50-150	14.2	50	
Perfluorododecanoic acid (PFDoA)	2.49	1.9	ng/L	1.95		128	50-150	24.2	50	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346875 - EPA 533										
LCS Dup (B346875-BSD1)				Prepared: 07/25/23 Analyzed: 07/26/23						
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.95	1.9	ng/L	1.73		113	50-150	7.25	50	
Perfluoroheptanesulfonic acid (PFHpS)	2.16	1.9	ng/L	1.86		116	50-150	25.4	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.05	1.9	ng/L	1.82		112	50-150	8.13	50	
Perfluorohexanesulfonic acid (PFHxS)	1.92	1.9	ng/L	1.78		108	50-150	6.01	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	2.11	1.9	ng/L	1.95		108	50-150	8.47	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	2.06	1.9	ng/L	1.95		106	50-150	7.02	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.99	1.9	ng/L	1.85		108	50-150	11.7	50	
Perfluoropentanesulfonic acid (PFPeS)	1.95	1.9	ng/L	1.83		107	50-150	2.46	50	
Perfluoroundecanoic acid (PFUnA)	1.94	1.9	ng/L	1.95		99.5	50-150	2.41	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.16	1.9	ng/L	1.95		111	50-150	5.90	50	
Perfluoroheptanoic acid (PFHpA)	2.22	1.9	ng/L	1.95		114	50-150	3.30	50	
Perfluorooctanoic acid (PFOA)	2.16	1.9	ng/L	1.95		111	50-150	10.7	50	
Perfluorooctanesulfonic acid (PFOS)	1.97	1.9	ng/L	1.80		110	50-150	11.1	50	
Perfluorononanoic acid (PFNA)	2.04	1.9	ng/L	1.95		105	50-150	9.50	50	
Surrogate: M2-4:2FTS	*39.7*		ng/L	36.5		109	50-200			
Surrogate: M2-8:2FTS	*61.6*		ng/L	37.4		165	50-200			
Surrogate: MPFBA	*45.9*		ng/L	38.9		118	50-200			
Surrogate: M3HFPO-DA	*38.4*		ng/L	38.9		98.6	50-200			
Surrogate: M6PFDA	*41.4*		ng/L	38.9		106	50-200			
Surrogate: M3PFBS	*39.5*		ng/L	36.3		109	50-200			
Surrogate: M7PFUnA	*42.7*		ng/L	38.9		110	50-200			
Surrogate: M2-6:2FTS	*39.6*		ng/L	37.0		107	50-200			
Surrogate: M5PFPeA	*45.7*		ng/L	38.9		117	50-200			
Surrogate: M5PFHxA	*40.0*		ng/L	38.9		103	50-200			
Surrogate: M3PFHxS	*42.8*		ng/L	36.9		116	50-200			
Surrogate: M4PFHpA	*39.9*		ng/L	38.9		103	50-200			
Surrogate: M8PFOA	*40.9*		ng/L	38.9		105	50-200			
Surrogate: M8PFOS	*41.8*		ng/L	37.3		112	50-200			
Surrogate: M9PFNA	*37.4*		ng/L	38.9		96.2	50-200			
Surrogate: MPFDoA	*39.2*		ng/L	38.9		101	50-200			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA,CT
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA,CT
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA,CT
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA,CT
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA,CT
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA,CT

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2024
ME	State of Maine	MA00100	06/9/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024

23G2999
KAF

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: [X] Yes ☐ No
Owner Received Date: 7/17/2023 Results Requested By: 8/1/2023

Pace

Workorder: 70263603 Workorder Name: 1,4 DIOXANE/PFAS 7/17

Report To

Jennifer Aracri
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone (631)694-3040

Subcontract To

Pace New England
39 Spruce St.
East Longmeadow, MA 01028
Phone (413)525-2332

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other	PFAS by 533	LAB USE ONLY
1	N-07551	PS	7/17/2023 09:22	70263603001	Drinking	1	X	
2	N-07551 FB	PS	7/17/2023 09:22	70263603002	Drinking	1	X	
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	7/19/23 15:45	MSMA(ANL)	7/19 1204
2	MSMA(ANL)	7/19 1946	MSMA(ANL)	7/19 2100
3	MSMA(ANL)	7/20 0020	[illegible]	7/20 0020

Comments

25 Compound List

Cooler Temperature on Receipt _____ °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

7/20/23 0320
DAOISADI 7-20-23
DAOISADI 7-20-23 7:25
7.5°C 0925 7-20-23

AEB

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Pace-Melville

Project PFAS 533-JA

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location 1,4DIOXANE/PFAS 7/17

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time AAM/7-20-23/0925

Back-Sheet By / Date / Time AAM/7-22-23/0901

Temperature Method Temp. Gun # 5

Temp ✓ < 6° C Actual Temperature 3.5°C

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☐
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Page 1 of 2

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

Sample	Soils Jars (Circle Amb/Clear)				Ambers							Plastics											VOA Vials					Other / Fill in					
					1 Liter			250mL			100mL	1 Liter		500mL		250mL																	
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact					
1																					2												
2																					1												
3																																	
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20																																	

Page 2 of 2

Qualtrax ID: 120836

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Special

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70265055001
Client Sample ID.: N-07551

Federal ID : 2912267
Collected : 07/31/2023 08:01 AM Point N-07551
Received : 07/31/2023 02:45 PM Location Morley Pk 8
Collected By CLIENT No Hls

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 08/03/2023 1:02 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	**1.5***		1	ug/L	1	08/04/2023 1:12 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	118%		1	%REC		08/04/2023 1:12 PM	001 AG2R1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 08/07/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70265055

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

WO#: 70265055

70265055

Sample Request Form
PUBLIC WATER SUPPLIER

Relinquished 7-31-23 1445

Date: 7/31/23

Collected By: Richard Zimbardi

Accepted By: 7-31-23 1230

Cooler Temp: 6.4 °C

☐ WELL OFF LINE

☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info: Paul Prignano, Superintendent

Name or Code: ~~Port Washington Water District~~

Address: ~~38 Sandy Hollow Road~~

~~P.O. Box 432~~

Phone #: ~~Port Washington, NY 11050~~

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
7/31/23 8:01	GW	Morley 8 N-07551	RW	O	S			Dioxane	

Remarks: * Results to Paul Prignano Superintendent Only!

Client: PWW

Profile #: 5141

Work ID: 1,4 DIOX 7/31

COC Page 1 of 1

☒ Use Point Number Spreadsheet

☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
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Container Codes

Glass			
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass
		AG1A	(NH4Cl)
WG9O	8oz clear soil jar		
WG4O	4oz clear soil jar		

Plastic		Misc.	
BP4U	125mL unpreserved plastic	SP5T	120mL Coliform Na Thio
BP3U	250mL unpreserved plastic	R	Terracore Kit
BP2U	500mL unpreserved plastic	WG2U	2oz Unpreserved Jar
BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
BP3C	NaOH 250mL bottle	GN	General
BP3T	250mL Trizma	WP	Wipe
BP35	250mL Ammonium Acetale		
BP3R	250mL NH4SO4-NH4OH		
BP1Z	1L NaOH, Zn Acetale		
BP1N	1L HNO3 plastic		
BP1B	Na Thiosulfate Amber Bottle		

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials D

Additional Comments

WO#: 70265055

PM: JSA Due Date: 08/11/23

CLIENT: PWW

X2

WO#: 70265055

PM: JSA **Due Date: 08/11/23**
CLIENT: PWW

Client Name: PWD Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No Temperature Blank Present: ☐ Yes ☐ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH196 Correction Factor: -0.4 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 6.4 Cooler Temperature Corrected(°C): 6.0 Date/Time 5035A kits placed in freezer: JK 7-31-23
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: AS 7/31/23

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No AS 7/31		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No		12.
Matrix:	SL	WT	OIL OTHER	

Date and Initials of person checking preservation:

All containers needing preservation have been pH paper Lot #	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☑N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70263601001
Client Sample ID.: N-07552

Federal ID : 2912267
Collected : 07/17/2023 09:07 AM Point N-07552
Received : 07/17/2023 03:03 PM Location Morely Pk 9
Collected By CLIENT No Hls

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 07/21/2023 1:56 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	**12.6***		10	ug/L	1	07/22/2023 2:56 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	109%		10	%REC		07/22/2023 2:56 PM	001 AG2R1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 07/28/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70263601

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

WO#: 70263601

70263601

Rel. Taylor 7-12-23 1505

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 7/11/23

Collected By: Richard Zinbardi

Accepted By: [signature] 7-17-23 1245

Cooler Temp: 5.3 °C

☐ WELL OFF LINE

☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code:

Address: Italo J. Vacchio, Superintendent
Port Washington Water District
P.O. Box 432
38 Sandy Hollow Road
Port Washington, NY 11050

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
7/17/23 9:07	GW	Morley 9 N-07552	RW	O	RO			Dioxane Method 533 w Field Blank	

Remarks:

Client: PWW

Profile #: 5141

Work ID: ~~PDC 7/17~~ AS 7/17 1,4DIOXANE/PFAS

COC Page 7/17 of

☒ Use Point Number Spreadsheet

☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
1																				2																	1															
2																																					1															
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11																																																				

Container Codes

Glass				Plastic		Misc.	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic	SP5T	120mL Coliform Na Thio
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	R	Terracore Kit
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic	WG2U	2oz Unpreserved Jar
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	GN	General
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma	WP	Wipe
		AG1A	(NH4Cl)	BP3S	250mL Ammonium Acetate		
WG9O	8oz clear soil jar			BP3R	250mL NH4SO4-NH4OH		
WG4O	4oz clear soil jar			BP1Z	1L NaOH, Zn Acetate		
				BP1N	1L HNO3 plastic		
				BP1B	Na Thiosulfate Amber Bottle		

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
	[illegible]

Sender Initials _____

Additional Comments

Field Blank location 2

WO#: 70263601
PM: JSA Due Date: 08/01/23
CLIENT: PWW

WO#: 70263601
PM: JSA **Due Date: 08/01/23**
CLIENT: PWW

Client Name: PWWD Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☑ Yes ☐ No Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH188 Correction Factor: -0.3 ☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 5.3 Cooler Temperature Corrected(°C): 5.0 Date/Time 5035A kits placed in freezer JK 7.7.23

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☐Yes	☑No		12. Time on COC and bottle label differs

Date and Initials of person checking preservation:

All containers needing preservation have been pH paper Lot #	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☑N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

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July 27, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: 1,4 DIOANE/PFAS 7/17
Client Job Number:
Project Number: 70263601
Laboratory Work Order Number: 23G2998

Enclosed are results of analyses for samples as received by the laboratory on July 20, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 7/27/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70263601

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23G2998

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1,4 DIOANE/PFAS 7/17

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-07552	23G2998-01	Drinking Water		EPA 533	
N-07552 FB	23G2998-02	Field Blank		EPA 533	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan E. Kelley
Reporting Specialist

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4 DIOANE/PFAS 7/17 Sample Description: Work Order: 23G2998

Date Received: 7/20/2023

Field Sample #: N-07552 Sampled: 7/17/2023 09:07

Sample ID: 23G2998-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluorohexanesulfonic acid (PFHxS)	3.5	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluorooctanoic acid (PFOA)	4.9	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluorooctanesulfonic acid (PFOS)	6.1	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW
Perfluorononanoic acid (PFNA)	11	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 16:07	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	92.5	50-200		7/26/23 16:07
M2-8:2FTS	142	50-200		7/26/23 16:07
MPFBA	77.2	50-200		7/26/23 16:07
M3HFPO-DA	60.2	50-200		7/26/23 16:07
M6PFDA	63.3	50-200		7/26/23 16:07
M3PFBS	100	50-200		7/26/23 16:07
M7PFUnA	66.2	50-200		7/26/23 16:07
M2-6:2FTS	111	50-200		7/26/23 16:07
M5PFPeA	79.4	50-200		7/26/23 16:07
M5PFHxA	70.7	50-200		7/26/23 16:07
M3PFHxS	109	50-200		7/26/23 16:07
M4PFHpA	69.4	50-200		7/26/23 16:07
M8PFOA	68.9	50-200		7/26/23 16:07
M8PFOS	109	50-200		7/26/23 16:07
M9PFNA	64.2	50-200		7/26/23 16:07
MPFDoA	70.0	50-200		7/26/23 16:07

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Project Location: 1,4 DIOANE/PFAS 7/17 Sample Description: Work Order: 23G2998

Date Received: 7/20/2023

Field Sample #: N-07552 FB Sampled: 7/17/2023 09:07

Sample ID: 23G2998-02

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 16:14	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	87.8	50-200		7/26/23 16:14
M2-8:2FTS	189	50-200		7/26/23 16:14
MPFBA	112	50-200		7/26/23 16:14
M3HFPO-DA	84.3	50-200		7/26/23 16:14
M6PFDA	102	50-200		7/26/23 16:14
M3PFBS	96.7	50-200		7/26/23 16:14
M7PFUnA	106	50-200		7/26/23 16:14
M2-6:2FTS	101	50-200		7/26/23 16:14
M5PFPeA	112	50-200		7/26/23 16:14
M5PFHxA	96.6	50-200		7/26/23 16:14
M3PFHxS	104	50-200		7/26/23 16:14
M4PFHpA	98.4	50-200		7/26/23 16:14
M8PFOA	99.6	50-200		7/26/23 16:14
M8PFOS	105	50-200		7/26/23 16:14
M9PFNA	92.2	50-200		7/26/23 16:14
MPFDoA	102	50-200		7/26/23 16:14

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Sample Extraction Data

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G2998-01 [N-07552]	B346875	266	1.00	07/25/23
23G2998-02 [N-07552 FB]	B346875	272	1.00	07/25/23

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346875 - EPA 533										
Blank (B346875-BLK1)				Prepared: 07/25/23 Analyzed: 07/26/23						
Perfluorobutanoic acid (PFBA)	ND	1.9	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.9	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.9	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.9	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.9	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.9	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.9	ng/L							
Surrogate: M2-4:2FTS	*42.0*		ng/L	36.4		116	50-200			
Surrogate: M2-8:2FTS	*61.8*		ng/L	37.2		166	50-200			
Surrogate: MPFBA	*44.1*		ng/L	38.8		114	50-200			
Surrogate: M3HFPO-DA	*37.0*		ng/L	38.8		95.4	50-200			
Surrogate: M6PFDA	*45.4*		ng/L	38.8		117	50-200			
Surrogate: M3PFBS	*40.8*		ng/L	36.1		113	50-200			
Surrogate: M7PFUnA	*44.7*		ng/L	38.8		115	50-200			
Surrogate: M2-6:2FTS	*45.9*		ng/L	36.9		125	50-200			
Surrogate: M5PFPeA	*44.8*		ng/L	38.8		116	50-200			
Surrogate: M5PFHxA	*44.1*		ng/L	38.8		114	50-200			
Surrogate: M3PFHxS	*44.0*		ng/L	36.8		120	50-200			
Surrogate: M4PFHpA	*44.3*		ng/L	38.8		114	50-200			
Surrogate: M8PFOA	*45.2*		ng/L	38.8		117	50-200			
Surrogate: M8PFOS	*46.2*		ng/L	37.2		124	50-200			
Surrogate: M9PFNA	*44.3*		ng/L	38.8		114	50-200			
Surrogate: MPFDoA	*43.1*		ng/L	38.8		111	50-200			
LCS (B346875-BS1)				Prepared: 07/25/23 Analyzed: 07/26/23						
Perfluorobutanoic acid (PFBA)	2.16	2.0	ng/L	1.95		111	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.85	2.0	ng/L	1.73		107	50-150			
Perfluoropentanoic acid (PFPeA)	2.05	2.0	ng/L	1.95		105	50-150			
Perfluorohexanoic acid (PFHxA)	2.09	2.0	ng/L	1.95		107	50-150			
11Cl-PF3OUdS (F53B Major)	1.59	2.0	ng/L	1.84		86.3	50-150			
9Cl-PF3ONS (F53B Minor)	1.75	2.0	ng/L	1.82		96.2	50-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346875 - EPA 533										
LCS (B346875-BS1)				Prepared: 07/25/23 Analyzed: 07/26/23						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.66	2.0	ng/L	1.84		90.2	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.80	2.0	ng/L	1.95		92.1	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.61	2.0	ng/L	1.87		86.1	50-150			
Perfluorodecanoic acid (PFDA)	1.83	2.0	ng/L	1.95		94.0	50-150			
Perfluorododecanoic acid (PFDoA)	1.95	2.0	ng/L	1.95		99.9	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.82	2.0	ng/L	1.74		105	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.67	2.0	ng/L	1.86		89.7	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.89	2.0	ng/L	1.82		103	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.04	2.0	ng/L	1.79		114	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.94	2.0	ng/L	1.95		99.3	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.92	2.0	ng/L	1.95		98.4	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.77	2.0	ng/L	1.85		95.5	50-150			
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.0	ng/L	1.83		109	50-150			
Perfluoroundecanoic acid (PFUnA)	1.89	2.0	ng/L	1.95		96.9	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.04	2.0	ng/L	1.95		105	50-150			
Perfluoroheptanoic acid (PFHpA)	2.15	2.0	ng/L	1.95		110	50-150			
Perfluorooctanoic acid (PFOA)	1.94	2.0	ng/L	1.95		99.5	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.77	2.0	ng/L	1.80		97.8	50-150			
Perfluorononanoic acid (PFNA)	1.86	2.0	ng/L	1.95		95.2	50-150			
Surrogate: M2-4:2FTS	*40.2*		ng/L	36.6		110	50-200			
Surrogate: M2-8:2FTS	*62.9*		ng/L	37.5		168	50-200			
Surrogate: MPFBA	*43.2*		ng/L	39.0		111	50-200			
Surrogate: M3HFPO-DA	*37.9*		ng/L	39.0		97.0	50-200			
Surrogate: M6PFDA	*43.7*		ng/L	39.0		112	50-200			
Surrogate: M3PFBS	*39.1*		ng/L	36.4		108	50-200			
Surrogate: M7PFUnA	*44.1*		ng/L	39.0		113	50-200			
Surrogate: M2-6:2FTS	*41.1*		ng/L	37.1		111	50-200			
Surrogate: M5PFPeA	*43.2*		ng/L	39.0		111	50-200			
Surrogate: M5PFHxA	*39.2*		ng/L	39.0		100	50-200			
Surrogate: M3PFHxS	*41.2*		ng/L	37.0		111	50-200			
Surrogate: M4PFHpA	*40.3*		ng/L	39.0		103	50-200			
Surrogate: M8PFOA	*43.9*		ng/L	39.0		113	50-200			
Surrogate: M8PFOS	*45.0*		ng/L	37.4		120	50-200			
Surrogate: M9PFNA	*39.0*		ng/L	39.0		100	50-200			
Surrogate: MPFDoA	*43.1*		ng/L	39.0		110	50-200			
LCS Dup (B346875-BSD1)				Prepared: 07/25/23 Analyzed: 07/26/23						
Perfluorobutanoic acid (PFBA)	2.41	1.9	ng/L	1.95		124	50-150	10.9	50	
Perfluorobutanesulfonic acid (PFBS)	1.99	1.9	ng/L	1.72		116	50-150	7.54	50	
Perfluoropentanoic acid (PFPeA)	2.21	1.9	ng/L	1.95		114	50-150	7.52	50	
Perfluorohexanoic acid (PFHxA)	2.17	1.9	ng/L	1.95		111	50-150	3.89	50	
11Cl-PF3OUdS (F53B Major)	1.58	1.9	ng/L	1.83		86.3	50-150	0.272	50	
9Cl-PF3ONS (F53B Minor)	1.86	1.9	ng/L	1.81		103	50-150	6.32	50	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.73	1.9	ng/L	1.83		94.4	50-150	4.23	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.79	1.9	ng/L	1.95		92.0	50-150	0.341	50	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.30	1.9	ng/L	1.87		123	50-150	35.2	50	
Perfluorodecanoic acid (PFDA)	2.12	1.9	ng/L	1.95		109	50-150	14.2	50	
Perfluorododecanoic acid (PFDoA)	2.49	1.9	ng/L	1.95		128	50-150	24.2	50	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346875 - EPA 533										
LCS Dup (B346875-BSD1)				Prepared: 07/25/23 Analyzed: 07/26/23						
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.95	1.9	ng/L	1.73		113	50-150	7.25	50	
Perfluoroheptanesulfonic acid (PFHpS)	2.16	1.9	ng/L	1.86		116	50-150	25.4	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.05	1.9	ng/L	1.82		112	50-150	8.13	50	
Perfluorohexanesulfonic acid (PFHxS)	1.92	1.9	ng/L	1.78		108	50-150	6.01	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	2.11	1.9	ng/L	1.95		108	50-150	8.47	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	2.06	1.9	ng/L	1.95		106	50-150	7.02	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.99	1.9	ng/L	1.85		108	50-150	11.7	50	
Perfluoropentanesulfonic acid (PFPeS)	1.95	1.9	ng/L	1.83		107	50-150	2.46	50	
Perfluoroundecanoic acid (PFUnA)	1.94	1.9	ng/L	1.95		99.5	50-150	2.41	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.16	1.9	ng/L	1.95		111	50-150	5.90	50	
Perfluoroheptanoic acid (PFHpA)	2.22	1.9	ng/L	1.95		114	50-150	3.30	50	
Perfluorooctanoic acid (PFOA)	2.16	1.9	ng/L	1.95		111	50-150	10.7	50	
Perfluorooctanesulfonic acid (PFOS)	1.97	1.9	ng/L	1.80		110	50-150	11.1	50	
Perfluorononanoic acid (PFNA)	2.04	1.9	ng/L	1.95		105	50-150	9.50	50	
Surrogate: M2-4:2FTS	*39.7*		ng/L	36.5		109	50-200			
Surrogate: M2-8:2FTS	*61.6*		ng/L	37.4		165	50-200			
Surrogate: MPFBA	*45.9*		ng/L	38.9		118	50-200			
Surrogate: M3HFPO-DA	*38.4*		ng/L	38.9		98.6	50-200			
Surrogate: M6PFDA	*41.4*		ng/L	38.9		106	50-200			
Surrogate: M3PFBS	*39.5*		ng/L	36.3		109	50-200			
Surrogate: M7PFUnA	*42.7*		ng/L	38.9		110	50-200			
Surrogate: M2-6:2FTS	*39.6*		ng/L	37.0		107	50-200			
Surrogate: M5PFPeA	*45.7*		ng/L	38.9		117	50-200			
Surrogate: M5PFHxA	*40.0*		ng/L	38.9		103	50-200			
Surrogate: M3PFHxS	*42.8*		ng/L	36.9		116	50-200			
Surrogate: M4PFHpA	*39.9*		ng/L	38.9		103	50-200			
Surrogate: M8PFOA	*40.9*		ng/L	38.9		105	50-200			
Surrogate: M8PFOS	*41.8*		ng/L	37.3		112	50-200			
Surrogate: M9PFNA	*37.4*		ng/L	38.9		96.2	50-200			
Surrogate: MPFDoA	*39.2*		ng/L	38.9		101	50-200			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA,CT
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA,CT
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA,CT
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA,CT
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA,CT
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA,CT

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2024
ME	State of Maine	MA00100	06/9/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024

23G2998
KAF

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: [X] Yes ☐ No
Owner Received Date: 7/17/2023 Results Requested By: 8/1/2023

Pace

Workorder: 70263601 **Workorder Name:** 1,4 DIOXANE/PFAS 7/17

Report To

Jennifer Aracri
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone (631)694-3040

Subcontract To

Pace New England
39 Spruce St.
East Longmeadow, MA 01028
Phone (413)525-2332

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other						PFAS by 533												LAB USE ONLY
1	N-07552	PS	7/17/2023 09:07	70263601001	Drinking	1																		
2	N-07552 FB	PS	7/17/2023 09:07	70263601002	Drinking	1						X												
3												X												
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	Mbrace Che	7/19/23 15:43	MSMA(AAL)	7/19 1700
2	MSMA(AAL)	7/19 1948		7/19 2100
3		7/20 0020		7/20 0020

Comments

25 Compound List

Cooler Temperature on Receipt _____ °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

7/20 0320
DAUSAAL 7-2023

DAUSAAL 7-20-23 7/25
3.5°C 7-20-23 0925

AEB

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Pace-Melville

Project PFAS 533 - JA

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location 1,4DIOXANE/PFAS 7/17

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time AAM/7-20-23/0925

Back-Sheet By / Date / Time AAM/7-22-23/0901

Temperature Method Temp. Gun # 5

Temp ✓ < 6° C Actual Temperature 3.5°C

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☐
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Page 1 of 2

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

| Sample | Soils Jars (Circle Amb/Clear) | | | | Ambers | | | | | Plastics | | | | |

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70263600001
Client Sample ID.: N-13510

Federal ID : 2912267
Collected : 07/17/2023 08:38 AM Point N-13510
Received : 07/17/2023 03:00 PM Location Morley Park 11
Collected By CLIENT

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 07/19/2023 12:31

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.26		1	ug/L	1	07/19/2023 11:31	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	110%		1	%REC		07/19/2023 11:31	001 AG2R1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 07/28/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70263600

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

WO#: 70263600

70263600

Sample Request Form
PUBLIC WATER SUPPLIER

Rec'd Tayler 7-17-23 1505

Date: 7/17/23

Collected By: Richard Zimbardi

Accepted By: Tayler 7-17-23 1245

Cooler Temp: 5.3 °C

☐ WELL OFF LINE

☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Italo J. Vacchio, Superintendent

Address: Port Washington Water District
P.O. Box 432
38 Sandy Hollow Road
Port Washington, NY 11050

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
7/17/23 8:38	GW	Morley Park II N-13510	RW	O	RO			Dioxane, Method 533 w Field Blank	

Remarks:

Client: PWW

Profile #: 5141

Work ID: ~~PCT~~ AS 7/17 1,4DIOXANE/PFAS 7/17

COC Page _____ of _____

☒ Use Point Number Spreadsheet

☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

CCC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
1																				2																1																
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10																																																					
11																																																					

Container Codes

Glass				Plastic		Misc.	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic	SP5T	120mL Coliform Na Thio
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	R	Terracore Kit
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic	WG2U	2oz Unpreserved Jar
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	GN	General
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma	WP	Wipe
		AG1A	(NH4Cl)	BP3S	250mL Ammonium Acetate		
WG9O	8oz clear soil jar			BP3R	250mL NH4SO4-NH4OH		
WG4O	4oz clear soil jar			BP1Z	1L NaOH, Zn Acetate		
				BP1N	1L HNO3 plastic		
				BP1B	Na Thiosulfate Amber Bottle		

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosultate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials _____

Additional Comments

Field Blank location 2

WO#: 70263600
PM: JSA
CLIENT: PWW
Due Date: 07/28/23

WO#: 70263600
PM: JSA **Due Date: 07/28/23**
CLIENT: PWW

Client Name: PWWD Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH188 Correction Factor: -0.3 ☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 5.3 Cooler Temperature Corrected(°C): 5.0 Date/Time 5035A kits placed in freezer JK 7.17.23

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: AS 7/17

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No		12. The time listed on COC and bottle label differ
	Matrix:	SL WT OIL OTHER		

AS 7/17

Date and Initials of person checking preservation:

All containers needing preservation have been	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	☑N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul	☐Yes	☐No	☑N/A	15
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

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July 27, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: 1,4 DIOXANE/PFAS 7/17
Client Job Number:
Project Number: 70263600
Laboratory Work Order Number: 23G2994

Enclosed are results of analyses for samples as received by the laboratory on July 20, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 7/27/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70263600

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23G2994

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1,4 DIOXANE/PFAS 7/17

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-13510	23G2994-01	Drinking Water		EPA 533	
N-13510 FB	23G2994-02	Field Blank		EPA 533	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan E. Kelley
Reporting Specialist

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4 DIOXANE/PFAS 7/17 Sample Description: Work Order: 23G2994

Date Received: 7/20/2023

Field Sample #: N-13510 Sampled: 7/17/2023 08:38

Sample ID: 23G2994-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.1	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluoropentanoic acid (PFPeA)	3.4	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluorohexanoic acid (PFHxA)	3.0	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluorohexanesulfonic acid (PFHxS)	2.8	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluoroheptanoic acid (PFHpA)	2.1	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluorooctanoic acid (PFOA)	6.1	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluorooctanesulfonic acid (PFOS)	4.0	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/25/23	7/26/23 15:01	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	94.0	50-200		7/26/23 15:01
M2-8:2FTS	140	50-200		7/26/23 15:01
MPFBA	88.4	50-200		7/26/23 15:01
M3HFPO-DA	68.9	50-200		7/26/23 15:01
M6PFDA	75.1	50-200		7/26/23 15:01
M3PFBS	93.1	50-200		7/26/23 15:01
M7PFUnA	79.2	50-200		7/26/23 15:01
M2-6:2FTS	102	50-200		7/26/23 15:01
M5PFPeA	90.6	50-200		7/26/23 15:01
M5PFHxA	74.6	50-200		7/26/23 15:01
M3PFHxS	100	50-200		7/26/23 15:01
M4PFHpA	76.3	50-200		7/26/23 15:01
M8PFOA	76.4	50-200		7/26/23 15:01
M8PFOS	106	50-200		7/26/23 15:01
M9PFNA	66.9	50-200		7/26/23 15:01
MPFDoA	84.2	50-200		7/26/23 15:01

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Project Location: 1,4 DIOXANE/PFAS 7/17 Sample Description: Work Order: 23G2994

Date Received: 7/20/2023

Field Sample #: N-13510 FB Sampled: 7/17/2023 08:38

Sample ID: 23G2994-02

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	7/25/23	7/26/23 15:08	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	95.7	50-200		7/26/23 15:08
M2-8:2FTS	195	50-200		7/26/23 15:08
MPFBA	105	50-200		7/26/23 15:08
M3HFPO-DA	94.1	50-200		7/26/23 15:08
M6PFDA	100	50-200		7/26/23 15:08
M3PFBS	97.8	50-200		7/26/23 15:08
M7PFUnA	104	50-200		7/26/23 15:08
M2-6:2FTS	118	50-200		7/26/23 15:08
M5PFPeA	104	50-200		7/26/23 15:08
M5PFHxA	91.1	50-200		7/26/23 15:08
M3PFHxS	104	50-200		7/26/23 15:08
M4PFHpA	93.7	50-200		7/26/23 15:08
M8PFOA	102	50-200		7/26/23 15:08
M8PFOS	109	50-200		7/26/23 15:08
M9PFNA	92.7	50-200		7/26/23 15:08
MPFDoA	102	50-200		7/26/23 15:08

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Sample Extraction Data

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G2994-01 [N-13510]	B346875	275	1.00	07/25/23
23G2994-02 [N-13510 FB]	B346875	265	1.00	07/25/23

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346875 - EPA 533										
Blank (B346875-BLK1)				Prepared: 07/25/23 Analyzed: 07/26/23						
Perfluorobutanoic acid (PFBA)	ND	1.9	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.9	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.9	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.9	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.9	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.9	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.9	ng/L							
Surrogate: M2-4:2FTS	*42.0*		ng/L	36.4		116	50-200			
Surrogate: M2-8:2FTS	*61.8*		ng/L	37.2		166	50-200			
Surrogate: MPFBA	*44.1*		ng/L	38.8		114	50-200			
Surrogate: M3HFPO-DA	*37.0*		ng/L	38.8		95.4	50-200			
Surrogate: M6PFDA	*45.4*		ng/L	38.8		117	50-200			
Surrogate: M3PFBS	*40.8*		ng/L	36.1		113	50-200			
Surrogate: M7PFUnA	*44.7*		ng/L	38.8		115	50-200			
Surrogate: M2-6:2FTS	*45.9*		ng/L	36.9		125	50-200			
Surrogate: M5PFPeA	*44.8*		ng/L	38.8		116	50-200			
Surrogate: M5PFHxA	*44.1*		ng/L	38.8		114	50-200			
Surrogate: M3PFHxS	*44.0*		ng/L	36.8		120	50-200			
Surrogate: M4PFHpA	*44.3*		ng/L	38.8		114	50-200			
Surrogate: M8PFOA	*45.2*		ng/L	38.8		117	50-200			
Surrogate: M8PFOS	*46.2*		ng/L	37.2		124	50-200			
Surrogate: M9PFNA	*44.3*		ng/L	38.8		114	50-200			
Surrogate: MPFDoA	*43.1*		ng/L	38.8		111	50-200			
LCS (B346875-BS1)				Prepared: 07/25/23 Analyzed: 07/26/23						
Perfluorobutanoic acid (PFBA)	2.16	2.0	ng/L	1.95		111	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.85	2.0	ng/L	1.73		107	50-150			
Perfluoropentanoic acid (PFPeA)	2.05	2.0	ng/L	1.95		105	50-150			
Perfluorohexanoic acid (PFHxA)	2.09	2.0	ng/L	1.95		107	50-150			
11Cl-PF3OUdS (F53B Major)	1.59	2.0	ng/L	1.84		86.3	50-150			
9Cl-PF3ONS (F53B Minor)	1.75	2.0	ng/L	1.82		96.2	50-150			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346875 - EPA 533										
LCS (B346875-BS1)				Prepared: 07/25/23 Analyzed: 07/26/23						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.66	2.0	ng/L	1.84		90.2	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.80	2.0	ng/L	1.95		92.1	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.61	2.0	ng/L	1.87		86.1	50-150			
Perfluorodecanoic acid (PFDA)	1.83	2.0	ng/L	1.95		94.0	50-150			
Perfluorododecanoic acid (PFDoA)	1.95	2.0	ng/L	1.95		99.9	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.82	2.0	ng/L	1.74		105	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.67	2.0	ng/L	1.86		89.7	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.89	2.0	ng/L	1.82		103	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.04	2.0	ng/L	1.79		114	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.94	2.0	ng/L	1.95		99.3	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.92	2.0	ng/L	1.95		98.4	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.77	2.0	ng/L	1.85		95.5	50-150			
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.0	ng/L	1.83		109	50-150			
Perfluoroundecanoic acid (PFUnA)	1.89	2.0	ng/L	1.95		96.9	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.04	2.0	ng/L	1.95		105	50-150			
Perfluoroheptanoic acid (PFHpA)	2.15	2.0	ng/L	1.95		110	50-150			
Perfluorooctanoic acid (PFOA)	1.94	2.0	ng/L	1.95		99.5	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.77	2.0	ng/L	1.80		97.8	50-150			
Perfluorononanoic acid (PFNA)	1.86	2.0	ng/L	1.95		95.2	50-150			
Surrogate: M2-4:2FTS	*40.2*		ng/L	36.6		110	50-200			
Surrogate: M2-8:2FTS	*62.9*		ng/L	37.5		168	50-200			
Surrogate: MPFBA	*43.2*		ng/L	39.0		111	50-200			
Surrogate: M3HFPO-DA	*37.9*		ng/L	39.0		97.0	50-200			
Surrogate: M6PFDA	*43.7*		ng/L	39.0		112	50-200			
Surrogate: M3PFBS	*39.1*		ng/L	36.4		108	50-200			
Surrogate: M7PFUnA	*44.1*		ng/L	39.0		113	50-200			
Surrogate: M2-6:2FTS	*41.1*		ng/L	37.1		111	50-200			
Surrogate: M5PFPeA	*43.2*		ng/L	39.0		111	50-200			
Surrogate: M5PFHxA	*39.2*		ng/L	39.0		100	50-200			
Surrogate: M3PFHxS	*41.2*		ng/L	37.0		111	50-200			
Surrogate: M4PFHpA	*40.3*		ng/L	39.0		103	50-200			
Surrogate: M8PFOA	*43.9*		ng/L	39.0		113	50-200			
Surrogate: M8PFOS	*45.0*		ng/L	37.4		120	50-200			
Surrogate: M9PFNA	*39.0*		ng/L	39.0		100	50-200			
Surrogate: MPFDoA	*43.1*		ng/L	39.0		110	50-200			
LCS Dup (B346875-BSD1)				Prepared: 07/25/23 Analyzed: 07/26/23						
Perfluorobutanoic acid (PFBA)	2.41	1.9	ng/L	1.95		124	50-150	10.9	50	
Perfluorobutanesulfonic acid (PFBS)	1.99	1.9	ng/L	1.72		116	50-150	7.54	50	
Perfluoropentanoic acid (PFPeA)	2.21	1.9	ng/L	1.95		114	50-150	7.52	50	
Perfluorohexanoic acid (PFHxA)	2.17	1.9	ng/L	1.95		111	50-150	3.89	50	
11Cl-PF3OUdS (F53B Major)	1.58	1.9	ng/L	1.83		86.3	50-150	0.272	50	
9Cl-PF3ONS (F53B Minor)	1.86	1.9	ng/L	1.81		103	50-150	6.32	50	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.73	1.9	ng/L	1.83		94.4	50-150	4.23	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.79	1.9	ng/L	1.95		92.0	50-150	0.341	50	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.30	1.9	ng/L	1.87		123	50-150	35.2	50	
Perfluorodecanoic acid (PFDA)	2.12	1.9	ng/L	1.95		109	50-150	14.2	50	
Perfluorododecanoic acid (PFDoA)	2.49	1.9	ng/L	1.95		128	50-150	24.2	50	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B346875 - EPA 533										
LCS Dup (B346875-BSD1)				Prepared: 07/25/23 Analyzed: 07/26/23						
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.95	1.9	ng/L	1.73		113	50-150	7.25	50	
Perfluoroheptanesulfonic acid (PFHpS)	2.16	1.9	ng/L	1.86		116	50-150	25.4	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.05	1.9	ng/L	1.82		112	50-150	8.13	50	
Perfluorohexanesulfonic acid (PFHxS)	1.92	1.9	ng/L	1.78		108	50-150	6.01	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	2.11	1.9	ng/L	1.95		108	50-150	8.47	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	2.06	1.9	ng/L	1.95		106	50-150	7.02	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.99	1.9	ng/L	1.85		108	50-150	11.7	50	
Perfluoropentanesulfonic acid (PFPeS)	1.95	1.9	ng/L	1.83		107	50-150	2.46	50	
Perfluoroundecanoic acid (PFUnA)	1.94	1.9	ng/L	1.95		99.5	50-150	2.41	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.16	1.9	ng/L	1.95		111	50-150	5.90	50	
Perfluoroheptanoic acid (PFHpA)	2.22	1.9	ng/L	1.95		114	50-150	3.30	50	
Perfluorooctanoic acid (PFOA)	2.16	1.9	ng/L	1.95		111	50-150	10.7	50	
Perfluorooctanesulfonic acid (PFOS)	1.97	1.9	ng/L	1.80		110	50-150	11.1	50	
Perfluorononanoic acid (PFNA)	2.04	1.9	ng/L	1.95		105	50-150	9.50	50	
Surrogate: M2-4:2FTS	*39.7*		ng/L	36.5		109	50-200			
Surrogate: M2-8:2FTS	*61.6*		ng/L	37.4		165	50-200			
Surrogate: MPFBA	*45.9*		ng/L	38.9		118	50-200			
Surrogate: M3HFPO-DA	*38.4*		ng/L	38.9		98.6	50-200			
Surrogate: M6PFDA	*41.4*		ng/L	38.9		106	50-200			
Surrogate: M3PFBS	*39.5*		ng/L	36.3		109	50-200			
Surrogate: M7PFUnA	*42.7*		ng/L	38.9		110	50-200			
Surrogate: M2-6:2FTS	*39.6*		ng/L	37.0		107	50-200			
Surrogate: M5PFPeA	*45.7*		ng/L	38.9		117	50-200			
Surrogate: M5PFHxA	*40.0*		ng/L	38.9		103	50-200			
Surrogate: M3PFHxS	*42.8*		ng/L	36.9		116	50-200			
Surrogate: M4PFHpA	*39.9*		ng/L	38.9		103	50-200			
Surrogate: M8PFOA	*40.9*		ng/L	38.9		105	50-200			
Surrogate: M8PFOS	*41.8*		ng/L	37.3		112	50-200			
Surrogate: M9PFNA	*37.4*		ng/L	38.9		96.2	50-200			
Surrogate: MPFDoA	*39.2*		ng/L	38.9		101	50-200			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA,CT
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA,CT
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA,CT
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA,CT
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA,CT
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA,CT

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2024
ME	State of Maine	MA00100	06/9/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024

23G2994
KAF

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: [X] Yes ☐ No

Pace

Workorder: 70263600 **Workorder Name:** 1,4 DIOXANE/PFAS 7/17
Owner Received Date: 7/17/2023 **Results Requested By:** 8/1/2023

Report To

Jennifer Aracri
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone (631)694-3040

Subcontract To

Pace New England
39 Spruce St.
East Longmeadow, MA 01028
Phone (413)525-2332

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other						PFAS by 533												LAB USE ONLY
1	N-13510	PS	7/17/2023 08:38	70263600001	Drinking	1						X												
2	N-13510 FB	PS	7/17/2023 08:38	70263600002	Drinking	1						X												
3																								
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	Michelle Shea	7/19/23 15:43	MSMA(ANL)	7/19 1700
2	MSMA(ANL)	7/19 1949	MSMA(ANL)	7/19 2100
3	MSMA(ANL)	7/20 0020	[illegible]	7/20 0020

Comments

25 Compound List

Cooler Temperature on Receipt _____ °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

[illegible] 7/20/23 0320
[illegible] DAVIS ANL 7-20-23
[illegible] DAVIS 7-20-23 7:25
[illegible] 3.5°C 0925 7-20-23

AEB

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Pace-Melville

Project PFAS-533 JA

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location 1,4 DIOXANE/PFAS 7/17

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time AAM/7-20-23/0925

Back-Sheet By / Date / Time AAM/7-22-23/0855

Temperature Method Temp. Gun # 5

Temp ✓< 6° C Actual Temperature 3.5°C

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☐
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Page 1 of 2

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

Sample	Soils Jars (Circle Amb/Clear)				Ambers					Plastics													VOA Vials					Other / Fill in					
					1 Liter			250mL	100mL	1 Liter		500mL		250mL																			
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	Bisulfate	Col/Bact					
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Quaitrax ID: 120836

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Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Special

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70265057001
Client Sample ID.: N-13510

Federal ID : 2912267
Collected : 07/31/2023 08:12 AM Point N-13510
Received : 07/31/2023 02:45 PM Location Morley Park 11
Collected By CLIENT

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 08/03/2023 1:02 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.28		1	ug/L	1	08/04/2023 2:33 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	117%		1	%REC		08/04/2023 2:33 PM	001 AG2R1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 08/07/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70265057

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

R.L. Tuthe 7-31-23 1445

WO#: 70265057

70265057

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 7/31/23

Collected By: Richard Zimbard.

Accepted By: 7-31-23 1230.

Cooler Temp: 6.4 °C

❑ WELL OFF LINE

❑ WELL RUN TO SYSTEM

❑ YES ❑ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Paul Prignano, Superintendent

Address: Port Washington Water District
38 Sandy Hollow Road
P.O. Box 432
Port Washington, NY 11050

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
7/31/23 8:12	GW	Morley Park II N-13510	RW	O	S			Dioxane	

Remarks: * Results to Paul Prignano Superintendent only!

Client: PWW

Profile #: 5141

Work ID: 1,4 DIOX 7/31

COC Page 1 of 1

☒ Use Point Number Spreadsheet

☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
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Page 5 of 6

Container Codes

Glass				Plastic		Misc.	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic	SP5T	120mL Coliform Na Thio
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	R	Terracore Kit
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic	WG2U	2oz Unpreserved Jar
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic	WGKU-	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	GN	General
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma	WP	Wipe
		AG1A	(NH4Cl)	BP3S	250mL Ammonium Acetate		
WG9O	8oz clear soil jar			BP3R	250mL NH4SO4-NH4OH		
WG4O	4oz clear soil jar			BP1Z	1L NaOH, Zn Acetate		
				BP1N	1L HNO3 plastic		
				BP1B	Na Thiosulfate Amber Bottle		

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials D

Additional Comments

WO#: 70265057

PM: JSA Due Date: 08/11/23

CLIENT: PWW

X2

WO#: 70265057
PM: JSA **Due Date: 08/11/23**
CLIENT: PWW

Client Name: PWWD Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No Temperature Blank Present: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: ~~Wet~~ Blue None

Thermometer Used: TH196 Correction Factor: -0.4 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 6.4 Cooler Temperature Corrected(°C): 6.0 Date/Time 5035A kits placed in freezer: 1/2 7-31-23
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: AS 7/31/23

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No		12.
	Matrix:	SL WT OIL OTHER		

Date and Initials of person checking preservation:

All containers needing preservation have been	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	☑N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul	☐Yes	☐No	☑N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Laboratory Results

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TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70261951001
Client Sample ID.: N-09809

Federal ID : 2912267
Collected : 07/03/2023 08:06 AM Point N-09809
Received : 07/03/2023 01:20 PM Location Stoneytown 10
Collected By CLIENT Flwr Hl

Analytical Method:EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrate as N	4.0		5	mg/L	10	07/03/2023 10:29	001 BP4U1/1
Nitrate-Nitrite (as N)	4.0		5	mg/L		07/03/2023 10:29	001 BP4U1/1

Analytical Method:EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	07/03/2023 8:53 PM	001 BP4U1/1

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 07/10/2023 10:48

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.79		1	ug/L	1	07/10/2023 7:22 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	106%		1	%REC		07/10/2023 7:22 PM	001 AG2R1/2

Analytical Method:EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,1-Dichloroethane	0.75		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Benzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
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See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

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Laboratory Results

Results for the samples and analytes requested

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575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70261951001
Client Sample ID.: N-09809

Federal ID : 2912267
Collected : 07/03/2023 08:06 AM Point N-09809
Received : 07/03/2023 01:20 PM Location Stoneytown 10
Collected By CLIENT Flwr Hl

Bromochloromethane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		07/10/2023 2:31 PM	001 VG9C1/2
Bromoform	<0.50		1	ug/L		07/10/2023 2:31 PM	001 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Chlorodifluoromethane	<0.50	N3	1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Chloroform	<0.50		1	ug/L		07/10/2023 2:31 PM	001 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		07/10/2023 2:31 PM	001 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Dichlorodifluoromethane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	07/10/2023 2:31 PM	001 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Styrene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Toluene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	07/10/2023 2:31 PM	001 VG9C1/2
Trichloroethene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	07/10/2023 2:31 PM	001 VG9C1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
m&p-Xylene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
sec-Butylbenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	07/10/2023 2:31 PM	001 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	103%		1	%REC		07/10/2023 2:31 PM	001 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	101%		1	%REC		07/10/2023 2:31 PM	001 VG9C1/2

Analytical Method: SM22 9223B Colilert Prep Method: SM22 9223B Colilert Prep Date: 07/04/2023 9:30 AM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
E.coli	Absent		1		Absent	07/05/2023 9:30 AM	001 SP5T1/1
Total Coliforms	Absent		1		Absent	07/05/2023 9:30 AM	001 SP5T1/1

Qualifiers:
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Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

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Laboratory Results

Results for the samples and analytes requested

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TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:

Type: Drinking Water
Origin: Treated Well
Routine

Treatment

GAC

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70261951003
Client Sample ID.: GAC-09809

Federal ID : 2912267
Collected : 07/03/2023 08:55 AM Point GAC-09809
Received : 07/03/2023 01:20 PM Location Stoneytown 10
Collected By CLIENT GAC

Analytical Method: EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrate as N	4.4		5	mg/L	10	07/03/2023 10:30	003 BP4U1/1
Nitrate-Nitrite (as N)	4.5		5	mg/L		07/03/2023 10:30	003 BP4U1/1

Analytical Method: EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	07/03/2023 8:56 PM	003 BP4U1/1

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 07/10/2023 10:48

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	<0.020		1	ug/L	1	07/10/2023 7:38 PM	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	106%		1	%REC		07/10/2023 7:38 PM	003 AG2R1/2

Analytical Method: EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,1-Dichloroethane	0.82		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Benzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2

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Federal ID : 2912267
Collected : 07/03/2023 08:55 AM Point GAC-09809
Received : 07/03/2023 01:20 PM Location Stoneytown 10
Collected By CLIENT GAC

Bromochloromethane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		07/10/2023 2:08 PM	003 VG9C1/2
Bromoform	<0.50		1	ug/L		07/10/2023 2:08 PM	003 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Chlorodifluoromethane	<0.50	N3	1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Chloroform	<0.50		1	ug/L		07/10/2023 2:08 PM	003 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		07/10/2023 2:08 PM	003 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Dichlorodifluoromethane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	07/10/2023 2:08 PM	003 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Styrene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Toluene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	07/10/2023 2:08 PM	003 VG9C1/2
Trichloroethene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	07/10/2023 2:08 PM	003 VG9C1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
m&p-Xylene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
sec-Butylbenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	07/10/2023 2:08 PM	003 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	105%		1	%REC		07/10/2023 2:08 PM	003 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	94%		1	%REC		07/10/2023 2:08 PM	003 VG9C1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70261951

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70261951

Additional Qualifiers

N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

WO#: 70261951

70261951

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 7/3/23 CSC

Collected By: Andrew Prignano

Accepted By: 7/3/23 1320

Cooler Temp: 4.4 °C (W) Bac K 1450

☐ WELL OFF LINE

☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Italo J. Vacchio, Superintendent

Address: Port Washington Water District
P.O. Box 432
38 Sandy Hollow Road
Port Washington, NY 11050

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
7/3/23 8:06	GW	Stonytown 10 N-09809	RW	O	RO			Bac, POC, SOC, Nitrate Dioxane, method 533 w Field Blank	
8:55	GW	Stonytown 10 GAC-09809	TW	GAC	RO			BAC Series, POC, Nitrate Dioxane, method 533 w Field Blank	

Remarks:

Client: PWW

Profile #: 5141

Work ID: Bact Poc/NO3/1,4dio/PFAS 7/5

COC Page _____ of _____

☐ Use Point Number Spreadsheet

☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

COC Line item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
1			2																	2					1											2					1										
2																																				1															
3			2																	2					1											2																
4																																				1															
5																																																				
6																																																				
7																																																				
8																																																				
9																																																				
10																																																				
11																																																				

Container Codes

Glass			
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass
		AG1A	(NH4Cl)
WG9O	8oz clear soil jar		
WG4O	4oz clear soil jar		

Plastic	
BP4U	125mL unpreserved plastic
BP3U	250mL unpreserved plastic
BP2U	500mL unpreserved plastic
BP1U	1L unpreserved plastic
BP4N	125mL HNO3 plastic
BP3N	250mL HNO3 plastic
BP2N	500mL HNO3 plastic
BP3S	250mL H2SO4 plastic
BP2S	500mL H2SO4 plastic
BP3C	NaOH 250mL bottle
BP3T	250mL Trizma
BP3S	250mL Ammonium Acetate
BP3R	250mL NH4SO4-NH4OH
BP1Z	1L NaOH, Zn Acetate
BP1N	1L HNO3 plastic
BP1B	Na Thiosulfate Amber Bottle

Misc.	
SP5T	120mL Coliform Na Thio
R	Terracore Kit
WG2U	2oz Unpreserved Jar
WGFU	4oz Unpreserved Jar
WGKU	8oz Unpreserved Jar
WGDU	16oz Unpreserved Jar
ZPLC	Ziplock Bag
TEDL	Tedlar Bag
BG1H	1L HCL Clear Glass
GN	General
WP	Wipe

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials _____

Additional Comments

Sample 2 and 4 are FB

WO#: 70261951

PM: JSA **Due Date: 07/13/23**

CLIENT: PWW

WO#: 70261951
PM: JSA **Due Date: 07/13/23**
CLIENT: PWW

Client Name: PWW Proje

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ O

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No Temperature Blank Present: ☐ Yes ☐ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH148 Correction Factor: -0.3 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 4.4 Cooler Temperature Corrected(°C): 4.1 Date/Time 5035A kits placed in freezer _____
Temp should be above freezing to 6.0°C

EL 7/3/23

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No		6.
Rush Turn Around Time Requested	☑Yes	☐No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☐N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:	☑Yes	☐No		12.
	SL	WT	OIL OTHER	

Date and Initials of person checking preservation:

All containers needing preservation have been pH paper Lot #	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☑N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A*	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 17, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: BAC/POC/NO3/1,4DIOX/PFAS 7/3
Client Job Number:
Project Number: 70261951
Laboratory Work Order Number: 23G0786

Enclosed are results of analyses for samples as received by the laboratory on July 7, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 7/17/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70261951

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23G0786

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: BAC/POC/NO3/1,4DIOX/PFAS 7/3

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-09809	23G0786-01	Drinking Water		EPA 533	
N-09809 FB	23G0786-02	Field Blank		EPA 533	
GAC-09809	23G0786-03	Drinking Water		EPA 533	
GAC-09809 FB	23G0786-04	Field Blank		EPA 533	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 533

Qualifications:

L-01

Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)
B345820-BS1

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

M2-8:2FTS
23G0786-01[N-09809], 23G0786-02[N-09809 FB], 23G0786-04[GAC-09809 FB], B345428-BLK1

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-8:2FTS
B345428-BS1, B345428-BSD1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan E. Kelley
Reporting Specialist

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A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BAC/POC/NO3/1,4DIOX/PFAS 7 Sample Description: Work Order: 23G0786

Date Received: 7/7/2023

Field Sample #: N-09809 Sampled: 7/3/2023 08:06

Sample ID: 23G0786-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	2.1	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluoropentanoic acid (PFPeA)	2.9	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluorohexanoic acid (PFHxA)	2.7	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluorohexanesulfonic acid (PFHxS)	2.6	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluorooctanoic acid (PFOA)	4.8	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 12:51	JR2

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	99.2		50-200		7/11/23 12:51
M2-8:2FTS	**283**	*	50-200	PF-17	7/11/23 12:51
MPFBA	92.5		50-200		7/11/23 12:51
M3HFPO-DA	56.1		50-200		7/11/23 12:51
M6PFDA	64.1		50-200		7/11/23 12:51
M3PFBS	90.6		50-200		7/11/23 12:51
M7PFUnA	66.1		50-200		7/11/23 12:51
M2-6:2FTS	117		50-200		7/11/23 12:51
M5PFPeA	94.2		50-200		7/11/23 12:51
M5PFHxA	75.0		50-200		7/11/23 12:51
M3PFHxS	97.0		50-200		7/11/23 12:51
M4PFHpA	71.0		50-200		7/11/23 12:51
M8PFOA	63.9		50-200		7/11/23 12:51
M8PFOS	95.8		50-200		7/11/23 12:51
M9PFNA	58.2		50-200		7/11/23 12:51
MPFDoA	65.6		50-200		7/11/23 12:51

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Project Location: BAC/POC/NO3/1,4DIOX/PFAS 7 Sample Description: Work Order: 23G0786

Date Received: 7/7/2023

Field Sample #: N-09809 FB Sampled: 7/3/2023 08:06

Sample ID: 23G0786-02

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	7/10/23	7/11/23 12:58	JR2

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	96.9		50-200		7/11/23 12:58
M2-8:2FTS	**287**	*	50-200	PF-17	7/11/23 12:58
MPFBA	102		50-200		7/11/23 12:58
M3HFPO-DA	71.3		50-200		7/11/23 12:58
M6PFDA	100		50-200		7/11/23 12:58
M3PFBS	84.9		50-200		7/11/23 12:58
M7PFUnA	92.8		50-200		7/11/23 12:58
M2-6:2FTS	119		50-200		7/11/23 12:58
M5PFPeA	100		50-200		7/11/23 12:58
M5PFHxA	87.2		50-200		7/11/23 12:58
M3PFHxS	93.1		50-200		7/11/23 12:58
M4PFHpA	90.7		50-200		7/11/23 12:58
M8PFOA	97.7		50-200		7/11/23 12:58
M8PFOS	94.9		50-200		7/11/23 12:58
M9PFNA	90.8		50-200		7/11/23 12:58
MPFDoA	85.1		50-200		7/11/23 12:58

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Project Location: BAC/POC/NO3/1,4DIOX/PFAS 7 Sample Description: Work Order: 23G0786

Date Received: 7/7/2023

Field Sample #: GAC-09809 Sampled: 7/3/2023 08:55

Sample ID: 23G0786-03

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	2.7	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluoropentanoic acid (PFPeA)	3.6	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluorohexanoic acid (PFHxA)	3.4	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluorohexanesulfonic acid (PFHxS)	2.3	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluorooctanoic acid (PFOA)	4.5	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	7/13/23	7/14/23 15:37	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	85.1	50-200		7/14/23 15:37
M2-8:2FTS	114	50-200		7/14/23 15:37
MPFBA	88.2	50-200		7/14/23 15:37
M3HFPO-DA	82.4	50-200		7/14/23 15:37
M6PFDA	80.8	50-200		7/14/23 15:37
M3PFBS	101	50-200		7/14/23 15:37
M7PFUnA	83.6	50-200		7/14/23 15:37
M2-6:2FTS	104	50-200		7/14/23 15:37
M5PFPeA	80.9	50-200		7/14/23 15:37
M5PFHxA	77.0	50-200		7/14/23 15:37
M3PFHxS	105	50-200		7/14/23 15:37
M4PFHpA	71.5	50-200		7/14/23 15:37
M8PFOA	70.7	50-200		7/14/23 15:37
M8PFOS	106	50-200		7/14/23 15:37
M9PFNA	74.5	50-200		7/14/23 15:37
MPFDoA	83.8	50-200		7/14/23 15:37

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Project Location: BAC/POC/NO3/1,4DIOX/PFAS 7 Sample Description: Work Order: 23G0786

Date Received: 7/7/2023

Field Sample #: GAC-09809 FB Sampled: 7/3/2023 08:55

Sample ID: 23G0786-04

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/10/23	7/11/23 13:13	JR2

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	106		50-200		7/11/23 13:13
M2-8:2FTS	**289**	*	50-200	PF-17	7/11/23 13:13
MPFBA	106		50-200		7/11/23 13:13
M3HFPO-DA	72.3		50-200		7/11/23 13:13
M6PFDA	98.3		50-200		7/11/23 13:13
M3PFBS	94.1		50-200		7/11/23 13:13
M7PFUnA	92.0		50-200		7/11/23 13:13
M2-6:2FTS	131		50-200		7/11/23 13:13
M5PFPeA	102		50-200		7/11/23 13:13
M5PFHxA	89.1		50-200		7/11/23 13:13
M3PFHxS	99.2		50-200		7/11/23 13:13
M4PFHpA	93.2		50-200		7/11/23 13:13
M8PFOA	102		50-200		7/11/23 13:13
M8PFOS	104		50-200		7/11/23 13:13
M9PFNA	92.1		50-200		7/11/23 13:13
MPFDoA	88.7		50-200		7/11/23 13:13

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Sample Extraction Data

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0786-01 [N-09809]	B345428	276	1.00	07/10/23
23G0786-02 [N-09809 FB]	B345428	269	1.00	07/10/23
23G0786-04 [GAC-09809 FB]	B345428	274	1.00	07/10/23

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G0786-03RE1 [GAC-09809]	B345820	265	1.00	07/13/23

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B345428 - EPA 533											
Blank (B345428-BLK1)				Prepared: 07/10/23 Analyzed: 07/11/23							
Perfluorobutanoic acid (PFBA)	ND	1.9	ng/L								
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	ng/L								
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	1.9	ng/L								
11Cl-PF3OUdS (F53B Major)	ND	1.9	ng/L								
9Cl-PF3ONS (F53B Minor)	ND	1.9	ng/L								
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	ng/L								
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	ng/L								
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	ng/L								
Perfluorodecanoic acid (PFDA)	ND	1.9	ng/L								
Perfluorododecanoic acid (PFDoA)	ND	1.9	ng/L								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L								
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	ng/L								
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	ng/L								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	ng/L								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	ng/L								
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	ng/L								
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	ng/L								
Perfluoroundecanoic acid (PFUnA)	ND	1.9	ng/L								
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L								
Perfluoroheptanoic acid (PFHpA)	ND	1.9	ng/L								
Perfluorooctanoic acid (PFOA)	ND	1.9	ng/L								
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	ng/L								
Perfluorononanoic acid (PFNA)	ND	1.9	ng/L								
Surrogate: M2-4:2FTS	*35.2*		ng/L	36.3		97.0		50-200			
Surrogate: M2-8:2FTS	*115*		ng/L	37.2		**309**	*	50-200			PF-17
Surrogate: MPFBA	*39.9*		ng/L	38.7		103		50-200			
Surrogate: M3HFPO-DA	*25.8*		ng/L	38.7		66.6		50-200			
Surrogate: M6PFDA	*39.5*		ng/L	38.7		102		50-200			
Surrogate: M3PFBS	*32.1*		ng/L	36.1		89.0		50-200			
Surrogate: M7PFUnA	*36.5*		ng/L	38.7		94.2		50-200			
Surrogate: M2-6:2FTS	*41.9*		ng/L	36.8		114		50-200			
Surrogate: M5PFPeA	*39.7*		ng/L	38.7		102		50-200			
Surrogate: M5PFHxA	*33.8*		ng/L	38.7		87.3		50-200			
Surrogate: M3PFHxS	*35.5*		ng/L	36.7		96.6		50-200			
Surrogate: M4PFHpA	*34.9*		ng/L	38.7		90.1		50-200			
Surrogate: M8PFOA	*36.5*		ng/L	38.7		94.2		50-200			
Surrogate: M8PFOS	*39.2*		ng/L	37.1		106		50-200			
Surrogate: M9PFNA	*35.4*		ng/L	38.7		91.4		50-200			
Surrogate: MPFDoA	*35.5*		ng/L	38.7		91.6		50-200			
LCS (B345428-BS1)				Prepared: 07/10/23 Analyzed: 07/11/23							
Perfluorobutanoic acid (PFBA)	17.0	1.9	ng/L	19.4		87.6		70-130			
Perfluorobutanesulfonic acid (PFBS)	15.1	1.9	ng/L	17.2		87.7		70-130			
Perfluoropentanoic acid (PFPeA)	17.0	1.9	ng/L	19.4		87.6		70-130			
Perfluorohexanoic acid (PFHxA)	16.8	1.9	ng/L	19.4		86.7		70-130			
11Cl-PF3OUdS (F53B Major)	14.1	1.9	ng/L	18.3		77.3		70-130			
9Cl-PF3ONS (F53B Minor)	13.7	1.9	ng/L	18.1		75.7		70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B345428 - EPA 533											
LCS (B345428-BS1)				Prepared: 07/10/23 Analyzed: 07/11/23							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	15.6	1.9	ng/L	18.3		85.2		70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	15.1	1.9	ng/L	19.4		77.8		70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	16.5	1.9	ng/L	18.6		88.4		70-130			
Perfluorodecanoic acid (PFDA)	16.3	1.9	ng/L	19.4		84.2		70-130			
Perfluorododecanoic acid (PFDoA)	16.8	1.9	ng/L	19.4		86.4		70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	18.5	1.9	ng/L	17.3		107		70-130			
Perfluoroheptanesulfonic acid (PFHpS)	16.9	1.9	ng/L	18.5		91.0		70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	15.6	1.9	ng/L	18.1		86.2		70-130			
Perfluorohexanesulfonic acid (PFHxS)	15.6	1.9	ng/L	17.8		87.6		70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	17.1	1.9	ng/L	19.4		88.3		70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	18.0	1.9	ng/L	19.4		92.6		70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	16.1	1.9	ng/L	18.4		87.6		70-130			
Perfluoropentanesulfonic acid (PFPeS)	15.4	1.9	ng/L	18.2		84.5		70-130			
Perfluoroundecanoic acid (PFUnA)	15.7	1.9	ng/L	19.4		81.1		70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	16.3	1.9	ng/L	19.4		84.1		70-130			
Perfluoroheptanoic acid (PFHpA)	17.4	1.9	ng/L	19.4		89.9		70-130			
Perfluorooctanoic acid (PFOA)	17.1	1.9	ng/L	19.4		88.2		70-130			
Perfluorooctanesulfonic acid (PFOS)	14.6	1.9	ng/L	17.9		81.1		70-130			
Perfluorononanoic acid (PFNA)	16.1	1.9	ng/L	19.4		83.0		70-130			
Surrogate: M2-4:2FTS	*35.2*		ng/L	36.4		96.8		50-200			
Surrogate: M2-8:2FTS	*153*		ng/L	37.2		**412**	*	50-200			S-29
Surrogate: MPFBA	*41.0*		ng/L	38.8		106		50-200			
Surrogate: M3HFPO-DA	*28.0*		ng/L	38.8		72.1		50-200			
Surrogate: M6PFDA	*44.5*		ng/L	38.8		115		50-200			
Surrogate: M3PFBS	*31.4*		ng/L	36.2		86.9		50-200			
Surrogate: M7PFUnA	*40.4*		ng/L	38.8		104		50-200			
Surrogate: M2-6:2FTS	*42.3*		ng/L	36.9		115		50-200			
Surrogate: M5PFPeA	*41.8*		ng/L	38.8		108		50-200			
Surrogate: M5PFHxA	*35.9*		ng/L	38.8		92.5		50-200			
Surrogate: M3PFHxS	*34.5*		ng/L	36.8		93.7		50-200			
Surrogate: M4PFHpA	*38.2*		ng/L	38.8		98.5		50-200			
Surrogate: M8PFOA	*40.2*		ng/L	38.8		104		50-200			
Surrogate: M8PFOS	*38.2*		ng/L	37.2		103		50-200			
Surrogate: M9PFNA	*41.1*		ng/L	38.8		106		50-200			
Surrogate: MPFDoA	*39.2*		ng/L	38.8		101		50-200			
LCS Dup (B345428-BSD1)				Prepared: 07/10/23 Analyzed: 07/11/23							
Perfluorobutanoic acid (PFBA)	16.6	1.9	ng/L	19.5		85.3		70-130	2.14	30	
Perfluorobutanesulfonic acid (PFBS)	14.9	1.9	ng/L	17.2		86.1		70-130	1.36	30	
Perfluoropentanoic acid (PFPeA)	16.8	1.9	ng/L	19.5		86.0		70-130	1.43	30	
Perfluorohexanoic acid (PFHxA)	16.3	1.9	ng/L	19.5		83.7		70-130	2.97	30	
11Cl-PF3OUdS (F53B Major)	14.3	1.9	ng/L	18.4		77.8		70-130	1.05	30	
9Cl-PF3ONS (F53B Minor)	14.4	1.9	ng/L	18.2		79.0		70-130	4.82	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	15.8	1.9	ng/L	18.4		86.1		70-130	1.48	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	16.5	1.9	ng/L	19.5		84.5		70-130	8.69	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	16.0	1.9	ng/L	18.7		85.4		70-130	3.04	30	
Perfluorodecanoic acid (PFDA)	17.0	1.9	ng/L	19.5		87.3		70-130	4.05	30	
Perfluorododecanoic acid (PFDoA)	17.0	1.9	ng/L	19.5		87.5		70-130	1.73	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B345428 - EPA 533											
LCS Dup (B345428-BSD1)				Prepared: 07/10/23 Analyzed: 07/11/23							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	18.0	1.9	ng/L	17.3		104		70-130	2.44	30	
Perfluoroheptanesulfonic acid (PFHpS)	15.2	1.9	ng/L	18.6		81.4		70-130	10.6	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	15.5	1.9	ng/L	18.2		85.0		70-130	0.895	30	
Perfluorohexanesulfonic acid (PFHxS)	14.6	1.9	ng/L	17.8		81.7		70-130	6.54	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	16.9	1.9	ng/L	19.5		86.6		70-130	1.39	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	17.7	1.9	ng/L	19.5		90.6		70-130	1.75	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	17.2	1.9	ng/L	18.5		92.9		70-130	6.35	30	
Perfluoropentanesulfonic acid (PFPeS)	15.0	1.9	ng/L	18.3		81.8		70-130	2.73	30	
Perfluoroundecanoic acid (PFUnA)	16.3	1.9	ng/L	19.5		83.8		70-130	3.74	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	16.4	1.9	ng/L	19.5		84.3		70-130	0.805	30	
Perfluoroheptanoic acid (PFHpA)	17.5	1.9	ng/L	19.5		89.9		70-130	0.439	30	
Perfluorooctanoic acid (PFOA)	16.5	1.9	ng/L	19.5		84.9		70-130	3.32	30	
Perfluorooctanesulfonic acid (PFOS)	15.3	1.9	ng/L	18.0		84.6		70-130	4.69	30	
Perfluorononanoic acid (PFNA)	16.8	1.9	ng/L	19.5		86.4		70-130	4.49	30	
Surrogate: M2-4:2FTS	*39.6*		ng/L	36.6		108		50-200			
Surrogate: M2-8:2FTS	*126*		ng/L	37.4		**336**	*	50-200			S-29
Surrogate: MPFBA	*44.0*		ng/L	39.0		113		50-200			
Surrogate: M3HFPO-DA	*29.6*		ng/L	39.0		75.9		50-200			
Surrogate: M6PFDA	*45.7*		ng/L	39.0		117		50-200			
Surrogate: M3PFBS	*33.9*		ng/L	36.3		93.2		50-200			
Surrogate: M7PFUnA	*42.6*		ng/L	39.0		109		50-200			
Surrogate: M2-6:2FTS	*45.5*		ng/L	37.1		123		50-200			
Surrogate: M5PFPeA	*44.0*		ng/L	39.0		113		50-200			
Surrogate: M5PFHxA	*38.7*		ng/L	39.0		99.3		50-200			
Surrogate: M3PFHxS	*37.7*		ng/L	37.0		102		50-200			
Surrogate: M4PFHpA	*40.5*		ng/L	39.0		104		50-200			
Surrogate: M8PFOA	*43.7*		ng/L	39.0		112		50-200			
Surrogate: M8PFOS	*40.2*		ng/L	37.4		108		50-200			
Surrogate: M9PFNA	*42.2*		ng/L	39.0		108		50-200			
Surrogate: MPFDoA	*42.4*		ng/L	39.0		109		50-200			
Batch B345820 - EPA 533											
Blank (B345820-BLK1)				Prepared: 07/13/23 Analyzed: 07/14/23							
Perfluorobutanoic acid (PFBA)	ND	1.9	ng/L								
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	ng/L								
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	1.9	ng/L								
11Cl-PF3OUdS (F53B Major)	ND	1.9	ng/L								
9Cl-PF3ONS (F53B Minor)	ND	1.9	ng/L								
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	ng/L								
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	ng/L								
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	ng/L								
Perfluorodecanoic acid (PFDA)	ND	1.9	ng/L								
Perfluorododecanoic acid (PFDoA)	ND	1.9	ng/L								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L								
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	ng/L								
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	ng/L								

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B345820 - EPA 533											
Blank (B345820-BLK1)				Prepared: 07/13/23 Analyzed: 07/14/23							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	ng/L								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	ng/L								
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	ng/L								
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	ng/L								
Perfluoroundecanoic acid (PFUnA)	ND	1.9	ng/L								
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L								
Perfluoroheptanoic acid (PFHpA)	ND	1.9	ng/L								
Perfluorooctanoic acid (PFOA)	ND	1.9	ng/L								
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	ng/L								
Perfluorononanoic acid (PFNA)	ND	1.9	ng/L								
Surrogate: M2-4:2FTS	*34.7*		ng/L	35.6		97.5		50-200			
Surrogate: M2-8:2FTS	*50.0*		ng/L	36.4		137		50-200			
Surrogate: MPFBA	*40.9*		ng/L	38.0		108		50-200			
Surrogate: M3HFPO-DA	*39.9*		ng/L	38.0		105		50-200			
Surrogate: M6PFDA	*38.2*		ng/L	38.0		101		50-200			
Surrogate: M3PFBS	*36.0*		ng/L	35.4		102		50-200			
Surrogate: M7PFUnA	*38.9*		ng/L	38.0		102		50-200			
Surrogate: M2-6:2FTS	*40.7*		ng/L	36.1		113		50-200			
Surrogate: M5PFPeA	*40.0*		ng/L	38.0		105		50-200			
Surrogate: M5PFHxA	*39.3*		ng/L	38.0		103		50-200			
Surrogate: M3PFHxS	*38.5*		ng/L	36.0		107		50-200			
Surrogate: M4PFHpA	*37.8*		ng/L	38.0		99.5		50-200			
Surrogate: M8PFOA	*38.8*		ng/L	38.0		102		50-200			
Surrogate: M8PFOS	*39.2*		ng/L	36.4		108		50-200			
Surrogate: M9PFNA	*38.5*		ng/L	38.0		101		50-200			
Surrogate: MPFDoA	*38.6*		ng/L	38.0		102		50-200			
LCS (B345820-BS1)				Prepared: 07/13/23 Analyzed: 07/14/23							
Perfluorobutanoic acid (PFBA)	20.0	2.0	ng/L	19.5		103		70-130			
Perfluorobutanesulfonic acid (PFBS)	18.0	2.0	ng/L	17.3		104		70-130			
Perfluoropentanoic acid (PFPeA)	19.9	2.0	ng/L	19.5		102		70-130			
Perfluorohexanoic acid (PFHxA)	19.5	2.0	ng/L	19.5		99.8		70-130			
11Cl-PF3OUdS (F53B Major)	21.5	2.0	ng/L	18.4		117		70-130			
9Cl-PF3ONS (F53B Minor)	17.9	2.0	ng/L	18.2		98.6		70-130			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	20.2	2.0	ng/L	18.4		110		70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	20.2	2.0	ng/L	19.5		103		70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	19.5	2.0	ng/L	18.7		104		70-130			
Perfluorodecanoic acid (PFDA)	19.6	2.0	ng/L	19.5		101		70-130			
Perfluorododecanoic acid (PFDoA)	19.7	2.0	ng/L	19.5		101		70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	22.7	2.0	ng/L	17.4		**131**	*	70-130			L-01
Perfluoroheptanesulfonic acid (PFHpS)	22.1	2.0	ng/L	18.6		119		70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	18.7	2.0	ng/L	18.2		103		70-130			
Perfluorohexanesulfonic acid (PFHxS)	19.8	2.0	ng/L	17.8		111		70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	23.1	2.0	ng/L	19.5		118		70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	24.6	2.0	ng/L	19.5		126		70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	18.6	2.0	ng/L	18.5		101		70-130			
Perfluoropentanesulfonic acid (PFPeS)	19.3	2.0	ng/L	18.3		105		70-130			
Perfluoroundecanoic acid (PFUnA)	20.8	2.0	ng/L	19.5		107		70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	22.6	2.0	ng/L	19.5		116		70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B345820 - EPA 533										
LCS (B345820-BS1)				Prepared: 07/13/23 Analyzed: 07/14/23						
Perfluoroheptanoic acid (PFHpA)	20.0	2.0	ng/L	19.5		103	70-130			
Perfluorooctanoic acid (PFOA)	20.7	2.0	ng/L	19.5		106	70-130			
Perfluorooctanesulfonic acid (PFOS)	19.1	2.0	ng/L	18.0		106	70-130			
Perfluorononanoic acid (PFNA)	20.2	2.0	ng/L	19.5		103	70-130			
Surrogate: M2-4:2FTS	*36.2*		ng/L	36.6		99.0	50-200			
Surrogate: M2-8:2FTS	*44.9*		ng/L	37.4		120	50-200			
Surrogate: MPFBA	*42.7*		ng/L	39.0		109	50-200			
Surrogate: M3HFPO-DA	*37.6*		ng/L	39.0		96.5	50-200			
Surrogate: M6PFDA	*44.6*		ng/L	39.0		114	50-200			
Surrogate: M3PFBS	*36.9*		ng/L	36.4		102	50-200			
Surrogate: M7PFUnA	*41.2*		ng/L	39.0		106	50-200			
Surrogate: M2-6:2FTS	*41.0*		ng/L	37.1		111	50-200			
Surrogate: M5PFPeA	*42.8*		ng/L	39.0		110	50-200			
Surrogate: M5PFHxA	*42.5*		ng/L	39.0		109	50-200			
Surrogate: M3PFHxS	*38.0*		ng/L	37.0		103	50-200			
Surrogate: M4PFHpA	*42.1*		ng/L	39.0		108	50-200			
Surrogate: M8PFOA	*42.3*		ng/L	39.0		108	50-200			
Surrogate: M8PFOS	*37.9*		ng/L	37.4		101	50-200			
Surrogate: M9PFNA	*41.4*		ng/L	39.0		106	50-200			
Surrogate: MPFDoA	*42.1*		ng/L	39.0		108	50-200			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
S-29	Extracted Internal Standard is outside of control limits.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA,CT
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA,CT
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA,CT
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA,CT
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA,CT
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA,CT

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2024
ME	State of Maine	MA00100	06/9/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024

2360786 KF

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: [X] Yes ☐ No

Pace

Workorder: 70261951 **Workorder Name:** BAC/POC/NO3/1,4DIOX/PFAS 7/3 **Owner Received Date:** 7/3/2023 **Results Requested By:** 7/18/2023

Report To

Jennifer Aracri
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone (631)694-3040

Subcontract To

Pace New England
39 Spruce St.
East Longmeadow, MA 01028
Phone (413)525-2332

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other	PFAS by 533	LAB USE ONLY
1	N-09809	PS	7/3/2023 08:06	70261951001	Drinking	1	X	
2	N-09809 FB	PS	7/3/2023 08:06	70261951002	Drinking	1	X	
3	GAC-09809	PS	7/3/2023 08:55	70261951003	Drinking	1	X	
4	GAC-09809	PS	7/3/2023 08:55	70261951004	Drinking	1	X	
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	Amy Baldini Pace LI	7/6/23 1800	MSMR	7/6 1700
2	MSMR	7/6 2016	MSM	7/6 2100
3	MSM			7/7/23 0005

Comments

25 Compound List

Cooler Temperature on Receipt °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

7/7/23 0315

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Eric Woods 7/7/23 900

Eric Woods 7/7/23 715
3.0°C 7-7-23 0916

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F:413-525-6405
www.pacelabs.com

ENV-FRM-ELON-0001 V05__Sample Receiving Checklist

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Pace
PEOPLE ADVANCING SCIENCE

Client Pace- Melville
Project PFAS 533 - JA
MCP/RCP Required N/A
Deliverable Package Requirement N/A
Location BAC/POC/N03/1,4DIOX/PFAS 7/3
PWSID# (When Applicable) N/A
Arrival Method:
Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐
Received By / Date / Time AAM/7-7-23/0916
Back-Sheet By / Date / Time AAM/7-7-23/1143
Temperature Method Temp. Gun # 5
Temp ☑ < 6° C Actual Temperature 3.0°C
Rush Samples: Yes / (No) Notify
Short Hold: Yes / (No) Notify

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☐
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: (N/A) ☐ ☐

Notes regarding Samples/COC outside of SOP:

Additional Container Notes

Sample	Soils Jars (Circle Amb/Clear)				Ambers							Plastics										VOA Vials					Other / Fill in					
					1 Liter			250mL			100mL	1 Liter		500mL		250mL																
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact	250ml Plastic Ammonium acetate				
1																																
2																												1				
3																												1				
4																												2				
5																												1				
6																																
7																																
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Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70268095001
Client Sample ID.: N-02052

Federal ID : 2912267
Collected : 08/23/2023 08:45 AM Point N-02052
Received : 08/23/2023 10:00 AM Location Hewlett 4
Collected By CLIENT Flwr Hl

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 08/24/2023 12:11

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	**1.3***		1	ug/L	1	08/26/2023 6:50 AM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	116%		1	%REC		08/26/2023 6:50 AM	001 AG2R1/2

Analytical Method: EPA 524.3

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,2-Dibromo-3-chloropropane	<0.010		1	ug/L	0.2	09/01/2023 10:13	001 DG9A1/2
1,2-Dibromoethane (EDB)	<0.010		1	ug/L	0.05	09/01/2023 10:13	001 DG9A1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	100%		1	%REC		09/01/2023 10:13	001 DG9A1/2
Surr: 4-Bromofluorobenzene (S)	99%		1	%REC		09/01/2023 10:13	001 DG9A1/2
Surr: tert Butyl Methyl-d3 Ether (S)	100%		1	%REC		09/01/2023 10:13	001 DG9A1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 09/15/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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Laboratory Results

Results for the samples and analytes requested

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575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70268095003
Client Sample ID.: GAC-02052

Federal ID : 2912267
Collected : 08/23/2023 08:41 AM Point GAC-02052
Received : 08/23/2023 10:00 AM Location Hewlett 4 GAC
Collected By CLIENT

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 08/25/2023 3:54 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.12		1	ug/L	1	08/28/2023 2:47 PM	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	114%		1	%REC		08/28/2023 2:47 PM	003 AG2R1/2

Analytical Method:EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Benzene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		09/01/2023 2:48 PM	003 VG9C1/2
Bromoform	<0.50		1	ug/L		09/01/2023 2:48 PM	003 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Chlorodifluoromethane	<0.50	N3	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Chloroform	<0.50		1	ug/L		09/01/2023 2:48 PM	003 VG9C1/2
Chloromethane	<0.50	L1	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2

Qualifiers:
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ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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Laboratory Results

Results for the samples and analytes requested

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575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70268095003
Client Sample ID.: GAC-02052

Federal ID : 2912267
Collected : 08/23/2023 08:41 AM Point GAC-02052
Received : 08/23/2023 10:00 AM Location Hewlett 4 GAC
Collected By CLIENT

Dibromochloromethane	<0.50	1	ug/L		09/01/2023 2:48 PM	003 VG9C1/2
Dibromomethane	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Dichlorodifluoromethane	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Ethylbenzene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Hexachloro-1,3-butadiene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Isopropylbenzene (Cumene)	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Methyl-tert-butyl ether	<0.50	1	ug/L	10	09/01/2023 2:48 PM	003 VG9C1/2
Methylene Chloride	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Styrene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Tetrachloroethene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Toluene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50	1	ug/L	80	09/01/2023 2:48 PM	003 VG9C1/2
Trichloroethene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Trichlorofluoromethane	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Vinyl chloride	<0.50	1	ug/L	2	09/01/2023 2:48 PM	003 VG9C1/2
cis-1,2-Dichloroethene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
cis-1,3-Dichloropropene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
m&p-Xylene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
n-Butylbenzene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
n-Propylbenzene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
o-Xylene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
p-Isopropyltoluene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
sec-Butylbenzene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
tert-Butylbenzene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
trans-1,2-Dichloroethene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
trans-1,3-Dichloropropene	<0.50	1	ug/L	5	09/01/2023 2:48 PM	003 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	97%	1	%REC		09/01/2023 2:48 PM	003 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	87%	1	%REC		09/01/2023 2:48 PM	003 VG9C1/2

Analytical Method: EPA 524.3

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,2-Dibromo-3-chloropropane	<0.010		1	ug/L	0.2	09/01/2023 10:39	003 DG9A1/2
1,2-Dibromoethane (EDB)	<0.010		1	ug/L	0.05	09/01/2023 10:39	003 DG9A1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	100%		1	%REC		09/01/2023 10:39	003 DG9A1/2
Surr: 4-Bromofluorobenzene (S)	97%		1	%REC		09/01/2023 10:39	003 DG9A1/2
Surr: tert Butyl Methyl-d3 Ether (S)	101%		1	%REC		09/01/2023 10:39	003 DG9A1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

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575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70268095

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70268095

Additional Qualifiers

L1 - Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

WO#: 70268095

70268095

Sample Request Form
PUBLIC WATER SUPPLIER

Broad Hollow Rd., Melville, NY 11747
(631) 694-3040 Fax: (631) 420-8436

Date: 8/23/23
Collected By: J. Stilson / R. Gambardi
Accepted By: Byd P-LI, 10:00
Cooler Temp: 6.5 °C (B)

☐ WELL OFF LINE
☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info: Paul Prignano, Superintendent
Name or Code: ~~Port Washington Water District~~
Address: ~~38 Sandy Hollow Road~~
~~P.O. Box 432~~
Phone #: ~~Port Washington, NY 11050~~
Attn:
Proj. # or (Name):
Bill To:
Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
8/23/23 8:15 Am	GW	Hewlett 4 N-02052	RW	O	RO			Dioxane, 533 w/Field Blank 524.3	
8:25 Am 8:41 AM	GW	Hewlett 4 GAC-02052	TW	GAC	RO			Dioxane, 533 w/Field Blank 524.3, POC	

Remarks:

Client: PWW

Profile #: 5141

Work ID: PFAS/PCC/1,4Dioxane 8/23

COC Page _____ of _____

☒ Use Point Number Spreadsheet

☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

CCC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP35	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
1									2											2																2																
2																																				1																
3									2											2																2																
4																																				1																
5																																																					
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7																																																					
8																																																					
9																																																					
10																																																					
11																																																					

Container Codes

Glass			
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass
		AG1A	(NH4Cl)
WG9O	8oz clear soil jar		
WG4O	4oz clear soil jar		

Plastic	
BP4U	125mL unpreserved plastic
BP3U	250mL unpreserved plastic
BP2U	500mL unpreserved plastic
BP1U	1L unpreserved plastic
BP4N	125mL HNO3 plastic
BP3N	250mL HNO3 plastic
BP2N	500mL HNO3 plastic
BP3S	250mL H2SO4 plastic
BP2S	500mL H2SO4 plastic
BP3C	NaOH 250mL bottle
BP3T	250mL Trizma
BP35	250mL Ammonium Acetate
BP3R	250mL NH4SO4-NH4OH
BP1Z	1L NaOH, Zn Acetate
BP1N	1L HNO3 plastic
BP1B	Na Thiosulfate Amber Bottle

Misc.	
SP5T	120mL Coliform Na Thio
R	Terracore Kit
WG2U	2oz Unpreserved Jar
WGFU	4oz Unpreserved Jar
WGKU	8oz Unpreserved Jar
WGDU	16oz Unpreserved Jar
ZPLC	Ziplock Bag
TEDL	Tedlar Bag
BG1H	1L HCL Clear Glass
GN	General
WP	Wipe

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials _____

Additional Comments

Please log FB as separate samples

WO#: 70268095

PM: JSA **Due Date: 09/05/23**

CLIENT: PWW

WO#: 70268095
PM: JSA Due Date: 09/05/23
CLIENT: PWW

Client Name: PWW Projec

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace ☐ Oth

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No Temperature Blank Present: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☑ Other Type of Ice: Wet (Blue) None

Thermometer Used: TH196 Correction Factor: -0.4 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 6.5 Cooler Temperature Corrected(°C): 6.1 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: MPL 8/23/23

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☑Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No		12.
Matrix:	SL	WT	OIL OTHER	

Date and Initials of person checking preservation: MPL 8/23/23

All containers needing preservation have been	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	☑N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). . Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul	☐Yes	☐No	☑N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☑N/A MPL	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

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September 15, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: PFAS/POC/1,4 DIOX 8/23
Client Job Number:
Project Number: 70268095
Laboratory Work Order Number: 23H3759

Enclosed are results of analyses for samples as received by the laboratory on August 23, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 9/15/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70268095

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23H3759

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: PFAS/POC/1,4 DIOX 8/23

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-02052	23H3759-01	Drinking Water		EPA 533	
N-02052 FB	23H3759-02	Field Blank		EPA 533	
GAC-02052	23H3759-03	Drinking Water		EPA 533	
GAC-02052 FB	23H3759-04	Field Blank		EPA 533	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 533

Qualifications:

L-01

Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

8:2 Fluorotelomersulfonic acid (8:2FTS A)
B350387-BSD1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Perfluoroheptanesulfonic acid (PFHpS)
B351727-BSD1

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

M2-6:2FTS
23H3759-01[N-02052], 23H3759-02[N-02052 FB], 23H3759-03RE1[GAC-02052], 23H3759-04[GAC-02052 FB], B350387-BLK1, B351727-BLK1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Perfluoroundecanoic acid (PFUnA)
23H3759-03RE1[GAC-02052], B351727-BSD1

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-6:2FTS
B350387-BS1, B350387-BSD1, B351727-BS1, B351727-BSD1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

11Cl-PF3OUdS (F53B Major)
S093452-CCV1, S093452-CCV2, S093452-CCV3

9Cl-PF3ONS (F53B Minor)
S093452-CCV1, S093452-CCV2

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The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan E. Kelley
Reporting Specialist

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Project Location: PFAS/POC/1,4 DIOX 8/23 Sample Description: Work Order: 23H3759

Date Received: 8/23/2023

Field Sample #: N-02052 Sampled: 8/23/2023 08:45

Sample ID: 23H3759-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	2.2	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluoropentanoic acid (PFPeA)	3.3	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluorohexanoic acid (PFHxA)	3.2	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluorohexanesulfonic acid (PFHxS)	3.0	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluoroheptanoic acid (PFHpA)	2.3	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluorooctanoic acid (PFOA)	5.3	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluorooctanesulfonic acid (PFOS)	3.8	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2
Perfluorononanoic acid (PFNA)	17	1.9		ng/L	1		EPA 533	9/6/23	9/12/23 17:31	JR2

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	60.0		50-200		9/12/23 17:31
M2-8:2FTS	86.7		50-200		9/12/23 17:31
MPFBA	93.1		50-200		9/12/23 17:31
M3HFPO-DA	59.0		50-200		9/12/23 17:31
M6PFDA	64.6		50-200		9/12/23 17:31
M3PFBS	90.9		50-200		9/12/23 17:31
M7PFUnA	61.6		50-200		9/12/23 17:31
M2-6:2FTS	**233**	*	50-200	PF-17	9/12/23 17:31
M5PFPeA	92.3		50-200		9/12/23 17:31
M5PFHxA	75.9		50-200		9/12/23 17:31
M3PFHxS	96.3		50-200		9/12/23 17:31
M4PFHpA	73.8		50-200		9/12/23 17:31
M8PFOA	77.4		50-200		9/12/23 17:31
M8PFOS	97.6		50-200		9/12/23 17:31
M9PFNA	64.9		50-200		9/12/23 17:31
MPFDoA	53.4		50-200		9/12/23 17:31

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Project Location: PFAS/POC/1,4 DIOX 8/23 Sample Description: Work Order: 23H3759

Date Received: 8/23/2023

Field Sample #: N-02052 FB Sampled: 8/23/2023 08:45

Sample ID: 23H3759-02

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:39	JR2

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	85.0		50-200		9/12/23 17:39
M2-8:2FTS	124		50-200		9/12/23 17:39
MPFBA	107		50-200		9/12/23 17:39
M3HFPO-DA	83.1		50-200		9/12/23 17:39
M6PFDA	100		50-200		9/12/23 17:39
M3PFBS	106		50-200		9/12/23 17:39
M7PFUnA	104		50-200		9/12/23 17:39
M2-6:2FTS	**399**	*	50-200	PF-17	9/12/23 17:39
M5PFPeA	106		50-200		9/12/23 17:39
M5PFHxA	96.4		50-200		9/12/23 17:39
M3PFHxS	101		50-200		9/12/23 17:39
M4PFHpA	100		50-200		9/12/23 17:39
M8PFOA	107		50-200		9/12/23 17:39
M8PFOS	109		50-200		9/12/23 17:39
M9PFNA	105		50-200		9/12/23 17:39
MPFDoA	86.3		50-200		9/12/23 17:39

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Project Location: PFAS/POC/1,4 DIOX 8/23 Sample Description: Work Order: 23H3759

Date Received: 8/23/2023

Field Sample #: GAC-02052 Sampled: 8/23/2023 08:41

Sample ID: 23H3759-03

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1	R-05	EPA 533	9/13/23	9/14/23 15:18	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	9/13/23	9/14/23 15:18	QNW

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	68.0		50-200		9/14/23 15:18
M2-8:2FTS	103		50-200		9/14/23 15:18
MPFBA	65.7		50-200		9/14/23 15:18
M3HFPO-DA	70.3		50-200		9/14/23 15:18
M6PFDA	77.7		50-200		9/14/23 15:18
M3PFBS	87.2		50-200		9/14/23 15:18
M7PFUnA	72.3		50-200		9/14/23 15:18
M2-6:2FTS	**339**	*	50-200	PF-17	9/14/23 15:18
M5PFPeA	66.8		50-200		9/14/23 15:18
M5PFHxA	58.0		50-200		9/14/23 15:18
M3PFHxS	88.1		50-200		9/14/23 15:18
M4PFHpA	58.8		50-200		9/14/23 15:18
M8PFOA	62.0		50-200		9/14/23 15:18
M8PFOS	77.8		50-200		9/14/23 15:18
M9PFNA	58.3		50-200		9/14/23 15:18
MPFDoA	68.7		50-200		9/14/23 15:18

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Project Location: PFAS/POC/1,4 DIOX 8/23 Sample Description: Work Order: 23H3759

Date Received: 8/23/2023

Field Sample #: GAC-02052 FB Sampled: 8/23/2023 08:41

Sample ID: 23H3759-04

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	9/6/23	9/12/23 17:53	JR2

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	69.3		50-200		9/12/23 17:53
M2-8:2FTS	89.8		50-200		9/12/23 17:53
MPFBA	79.8		50-200		9/12/23 17:53
M3HFPO-DA	58.9		50-200		9/12/23 17:53
M6PFDA	69.3		50-200		9/12/23 17:53
M3PFBS	81.7		50-200		9/12/23 17:53
M7PFUnA	65.4		50-200		9/12/23 17:53
M2-6:2FTS	**367**	*	50-200	PF-17	9/12/23 17:53
M5PFPeA	78.8		50-200		9/12/23 17:53
M5PFHxA	64.9		50-200		9/12/23 17:53
M3PFHxS	80.9		50-200		9/12/23 17:53
M4PFHpA	67.9		50-200		9/12/23 17:53
M8PFOA	81.2		50-200		9/12/23 17:53
M8PFOS	83.6		50-200		9/12/23 17:53
M9PFNA	70.3		50-200		9/12/23 17:53
MPFDoA	62.5		50-200		9/12/23 17:53

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Sample Extraction Data

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23H3759-01 [N-02052]	B350387	263	1.00	09/06/23
23H3759-02 [N-02052 FB]	B350387	274	1.00	09/06/23
23H3759-04 [GAC-02052 FB]	B350387	276	1.00	09/06/23

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23H3759-03RE1 [GAC-02052]	B351727	268	1.00	09/13/23

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B350387 - EPA 533											
Blank (B350387-BLK1)				Prepared: 09/06/23 Analyzed: 09/12/23							
Perfluorobutanoic acid (PFBA)	ND	1.8	ng/L								
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	ng/L								
Perfluoropentanoic acid (PFPeA)	ND	1.8	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	1.8	ng/L								
11Cl-PF3OUdS (F53B Major)	ND	1.8	ng/L								
9Cl-PF3ONS (F53B Minor)	ND	1.8	ng/L								
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	ng/L								
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	ng/L								
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	ng/L								
Perfluorodecanoic acid (PFDA)	ND	1.8	ng/L								
Perfluorododecanoic acid (PFDoA)	ND	1.8	ng/L								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L								
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	ng/L								
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	ng/L								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	ng/L								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	ng/L								
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8	ng/L								
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	ng/L								
Perfluoroundecanoic acid (PFUnA)	ND	1.8	ng/L								
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L								
Perfluoroheptanoic acid (PFHpA)	ND	1.8	ng/L								
Perfluorooctanoic acid (PFOA)	ND	1.8	ng/L								
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	ng/L								
Perfluorononanoic acid (PFNA)	ND	1.8	ng/L								
Surrogate: M2-4:2FTS	*32.2*		ng/L	33.3		96.6		50-200			
Surrogate: M2-8:2FTS	*37.9*		ng/L	34.1		111		50-200			
Surrogate: MPFBA	*32.7*		ng/L	35.5		92.0		50-200			
Surrogate: M3HFPO-DA	*24.0*		ng/L	35.5		67.5		50-200			
Surrogate: M6PFDA	*26.2*		ng/L	35.5		73.8		50-200			
Surrogate: M3PFBS	*33.5*		ng/L	33.1		101		50-200			
Surrogate: M7PFUnA	*30.4*		ng/L	35.5		85.5		50-200			
Surrogate: M2-6:2FTS	*142*		ng/L	33.8		**420**	*	50-200			PF-17
Surrogate: M5PFPeA	*31.8*		ng/L	35.5		89.7		50-200			
Surrogate: M5PFHxA	*26.7*		ng/L	35.5		75.3		50-200			
Surrogate: M3PFHxS	*33.6*		ng/L	33.7		99.7		50-200			
Surrogate: M4PFHpA	*27.3*		ng/L	35.5		76.8		50-200			
Surrogate: M8PFOA	*30.5*		ng/L	35.5		85.8		50-200			
Surrogate: M8PFOS	*38.0*		ng/L	34.0		112		50-200			
Surrogate: M9PFNA	*26.2*		ng/L	35.5		73.9		50-200			
Surrogate: MPFDoA	*30.5*		ng/L	35.5		85.9		50-200			
LCS (B350387-BS1)				Prepared: 09/06/23 Analyzed: 09/12/23							
Perfluorobutanoic acid (PFBA)	22.1	1.8	ng/L	18.0		122		70-130			
Perfluorobutanesulfonic acid (PFBS)	18.8	1.8	ng/L	16.0		117		70-130			
Perfluoropentanoic acid (PFPeA)	21.1	1.8	ng/L	18.0		117		70-130			
Perfluorohexanoic acid (PFHxA)	20.9	1.8	ng/L	18.0		116		70-130			
11Cl-PF3OUdS (F53B Major)	19.8	1.8	ng/L	17.0		116		70-130			
9Cl-PF3ONS (F53B Minor)	19.2	1.8	ng/L	16.8		114		70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B350387 - EPA 533											
LCS (B350387-BS1)				Prepared: 09/06/23 Analyzed: 09/12/23							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	17.4	1.8	ng/L	17.0		103		70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	22.2	1.8	ng/L	18.0		123		70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	19.6	1.8	ng/L	17.3		113		70-130			
Perfluorodecanoic acid (PFDA)	20.3	1.8	ng/L	18.0		112		70-130			
Perfluorododecanoic acid (PFDoA)	19.9	1.8	ng/L	18.0		110		70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	19.0	1.8	ng/L	16.1		118		70-130			
Perfluoroheptanesulfonic acid (PFHpS)	20.3	1.8	ng/L	17.2		118		70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	19.9	1.8	ng/L	16.9		118		70-130			
Perfluorohexanesulfonic acid (PFHxS)	19.4	1.8	ng/L	16.5		117		70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	20.5	1.8	ng/L	18.0		113		70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	20.0	1.8	ng/L	18.0		111		70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	20.9	1.8	ng/L	17.1		122		70-130			
Perfluoropentanesulfonic acid (PFPeS)	19.2	1.8	ng/L	17.0		113		70-130			
Perfluoroundecanoic acid (PFUnA)	21.4	1.8	ng/L	18.0		119		70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	22.6	1.8	ng/L	18.0		125		70-130			
Perfluoroheptanoic acid (PFHpA)	21.0	1.8	ng/L	18.0		116		70-130			
Perfluorooctanoic acid (PFOA)	19.8	1.8	ng/L	18.0		110		70-130			
Perfluorooctanesulfonic acid (PFOS)	20.1	1.8	ng/L	16.7		121		70-130			
Perfluorononanoic acid (PFNA)	20.6	1.8	ng/L	18.0		114		70-130			
Surrogate: M2-4:2FTS	*34.3*		ng/L	33.9		101		50-200			
Surrogate: M2-8:2FTS	*39.6*		ng/L	34.6		114		50-200			
Surrogate: MPFBA	*39.6*		ng/L	36.1		110		50-200			
Surrogate: M3HFPO-DA	*27.1*		ng/L	36.1		75.2		50-200			
Surrogate: M6PFDA	*33.0*		ng/L	36.1		91.5		50-200			
Surrogate: M3PFBS	*34.0*		ng/L	33.6		101		50-200			
Surrogate: M7PFUnA	*30.5*		ng/L	36.1		84.5		50-200			
Surrogate: M2-6:2FTS	*187*		ng/L	34.3		**545**	*	50-200			S-29
Surrogate: M5PFPeA	*39.2*		ng/L	36.1		109		50-200			
Surrogate: M5PFHxA	*31.1*		ng/L	36.1		86.1		50-200			
Surrogate: M3PFHxS	*32.1*		ng/L	34.2		93.8		50-200			
Surrogate: M4PFHpA	*31.2*		ng/L	36.1		86.4		50-200			
Surrogate: M8PFOA	*39.6*		ng/L	36.1		110		50-200			
Surrogate: M8PFOS	*33.8*		ng/L	34.6		97.7		50-200			
Surrogate: M9PFNA	*32.9*		ng/L	36.1		91.0		50-200			
Surrogate: MPFDoA	*32.2*		ng/L	36.1		89.1		50-200			
LCS Dup (B350387-BSD1)				Prepared: 09/06/23 Analyzed: 09/12/23							
Perfluorobutanoic acid (PFBA)	23.2	1.8	ng/L	18.0		129		70-130	4.92	30	
Perfluorobutanesulfonic acid (PFBS)	20.0	1.8	ng/L	16.0		125		70-130	6.22	30	
Perfluoropentanoic acid (PFPeA)	22.2	1.8	ng/L	18.0		123		70-130	5.07	30	
Perfluorohexanoic acid (PFHxA)	22.2	1.8	ng/L	18.0		123		70-130	6.13	30	
11Cl-PF3OUdS (F53B Major)	18.8	1.8	ng/L	17.0		111		70-130	4.74	30	
9Cl-PF3ONS (F53B Minor)	18.5	1.8	ng/L	16.8		110		70-130	3.59	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	19.5	1.8	ng/L	17.0		115		70-130	11.2	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	19.7	1.8	ng/L	18.0		109		70-130	12.0	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	26.4	1.8	ng/L	17.3		**153**	*	70-130	29.4	30	L-01
Perfluorodecanoic acid (PFDA)	22.8	1.8	ng/L	18.0		126		70-130	11.8	30	
Perfluorododecanoic acid (PFDoA)	24.4	1.8	ng/L	18.0		**135**	*	70-130	20.4	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B350387 - EPA 533											
LCS Dup (B350387-BSD1)				Prepared: 09/06/23 Analyzed: 09/12/23							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	20.0	1.8	ng/L	16.0		124		70-130	5.20	30	
Perfluoroheptanesulfonic acid (PFHpS)	20.7	1.8	ng/L	17.2		120		70-130	1.97	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	21.4	1.8	ng/L	16.9		127		70-130	7.19	30	
Perfluorohexanesulfonic acid (PFHxS)	20.2	1.8	ng/L	16.5		123		70-130	4.41	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	21.6	1.8	ng/L	18.0		120		70-130	5.26	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	20.7	1.8	ng/L	18.0		115		70-130	3.37	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	18.6	1.8	ng/L	17.1		109		70-130	11.5	30	
Perfluoropentanesulfonic acid (PFPeS)	20.5	1.8	ng/L	16.9		121		70-130	6.43	30	
Perfluoroundecanoic acid (PFUnA)	19.9	1.8	ng/L	18.0		110		70-130	7.47	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	24.1	1.8	ng/L	18.0		**134**	*	70-130	6.17	30	
Perfluoroheptanoic acid (PFHpA)	21.7	1.8	ng/L	18.0		120		70-130	3.05	30	
Perfluorooctanoic acid (PFOA)	22.5	1.8	ng/L	18.0		125		70-130	12.4	30	
Perfluorooctanesulfonic acid (PFOS)	20.2	1.8	ng/L	16.7		121		70-130	0.305	30	
Perfluorononanoic acid (PFNA)	21.6	1.8	ng/L	18.0		120		70-130	4.88	30	
Surrogate: M2-4:2FTS	*32.4*		ng/L	33.8		95.9		50-200			
Surrogate: M2-8:2FTS	*35.1*		ng/L	34.6		101		50-200			
Surrogate: MPFBA	*37.9*		ng/L	36.1		105		50-200			
Surrogate: M3HFPO-DA	*27.2*		ng/L	36.1		75.5		50-200			
Surrogate: M6PFDA	*29.7*		ng/L	36.1		82.5		50-200			
Surrogate: M3PFBS	*32.2*		ng/L	33.6		95.9		50-200			
Surrogate: M7PFUnA	*34.1*		ng/L	36.1		94.5		50-200			
Surrogate: M2-6:2FTS	*137*		ng/L	34.3		**400**	*	50-200			S-29
Surrogate: M5PFPeA	*37.7*		ng/L	36.1		104		50-200			
Surrogate: M5PFHxA	*31.1*		ng/L	36.1		86.3		50-200			
Surrogate: M3PFHxS	*31.0*		ng/L	34.2		90.7		50-200			
Surrogate: M4PFHpA	*31.1*		ng/L	36.1		86.4		50-200			
Surrogate: M8PFOA	*35.5*		ng/L	36.1		98.4		50-200			
Surrogate: M8PFOS	*34.4*		ng/L	34.6		99.5		50-200			
Surrogate: M9PFNA	*30.9*		ng/L	36.1		85.7		50-200			
Surrogate: MPFDoA	*30.2*		ng/L	36.1		83.7		50-200			
Batch B351727 - EPA 533											
Blank (B351727-BLK1)				Prepared: 09/13/23 Analyzed: 09/14/23							
Perfluorobutanoic acid (PFBA)	ND	1.9	ng/L								
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	ng/L								
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	1.9	ng/L								
11Cl-PF3OUdS (F53B Major)	ND	1.9	ng/L								
9Cl-PF3ONS (F53B Minor)	ND	1.9	ng/L								
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	ng/L								
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	ng/L								
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	ng/L								
Perfluorodecanoic acid (PFDA)	ND	1.9	ng/L								
Perfluorododecanoic acid (PFDoA)	ND	1.9	ng/L								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L								
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	ng/L								
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	ng/L								

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B351727 - EPA 533											
Blank (B351727-BLK1)				Prepared: 09/13/23 Analyzed: 09/14/23							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	ng/L								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	ng/L								
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	ng/L								
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	ng/L								
Perfluoroundecanoic acid (PFUnA)	ND	1.9	ng/L								
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L								
Perfluoroheptanoic acid (PFHpA)	ND	1.9	ng/L								
Perfluorooctanoic acid (PFOA)	ND	1.9	ng/L								
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	ng/L								
Perfluorononanoic acid (PFNA)	ND	1.9	ng/L								
Surrogate: M2-4:2FTS	*41.9*		ng/L	36.4		115		50-200			
Surrogate: M2-8:2FTS	*53.6*		ng/L	37.3		144		50-200			
Surrogate: MPFBA	*35.8*		ng/L	38.9		92.3		50-200			
Surrogate: M3HFPO-DA	*33.2*		ng/L	38.9		85.5		50-200			
Surrogate: M6PFDA	*30.1*		ng/L	38.9		77.4		50-200			
Surrogate: M3PFBS	*36.8*		ng/L	36.2		102		50-200			
Surrogate: M7PFUnA	*34.2*		ng/L	38.9		88.0		50-200			
Surrogate: M2-6:2FTS	*141*		ng/L	36.9		**382**	*	50-200			PF-17
Surrogate: M5PFPeA	*35.7*		ng/L	38.9		92.0		50-200			
Surrogate: M5PFHxA	*27.7*		ng/L	38.9		71.4		50-200			
Surrogate: M3PFHxS	*34.7*		ng/L	36.8		94.1		50-200			
Surrogate: M4PFHpA	*28.7*		ng/L	38.9		74.0		50-200			
Surrogate: M8PFOA	*34.7*		ng/L	38.9		89.3		50-200			
Surrogate: M8PFOS	*33.3*		ng/L	37.3		89.3		50-200			
Surrogate: M9PFNA	*27.2*		ng/L	38.9		70.1		50-200			
Surrogate: MPFDoA	*32.2*		ng/L	38.9		82.8		50-200			
LCS (B351727-BS1)				Prepared: 09/13/23 Analyzed: 09/14/23							
Perfluorobutanoic acid (PFBA)	22.4	2.0	ng/L	19.5		115		70-130			
Perfluorobutanesulfonic acid (PFBS)	18.9	2.0	ng/L	17.3		109		70-130			
Perfluoropentanoic acid (PFPeA)	21.2	2.0	ng/L	19.5		109		70-130			
Perfluorohexanoic acid (PFHxA)	21.7	2.0	ng/L	19.5		111		70-130			
11Cl-PF3OUdS (F53B Major)	22.6	2.0	ng/L	18.4		123		70-130			
9Cl-PF3ONS (F53B Minor)	19.3	2.0	ng/L	18.2		106		70-130			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	18.5	2.0	ng/L	18.4		101		70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13.9	2.0	ng/L	19.5		71.4		70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	22.2	2.0	ng/L	18.7		118		70-130			
Perfluorodecanoic acid (PFDA)	25.2	2.0	ng/L	19.5		129		70-130			
Perfluorododecanoic acid (PFDoA)	22.2	2.0	ng/L	19.5		114		70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	19.9	2.0	ng/L	17.4		115		70-130			
Perfluoroheptanesulfonic acid (PFHpS)	18.4	2.0	ng/L	18.6		98.9		70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	20.7	2.0	ng/L	18.2		113		70-130			
Perfluorohexanesulfonic acid (PFHxS)	18.7	2.0	ng/L	17.8		105		70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	21.3	2.0	ng/L	19.5		109		70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	19.2	2.0	ng/L	19.5		98.6		70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	21.3	2.0	ng/L	18.5		115		70-130			
Perfluoropentanesulfonic acid (PFPeS)	18.8	2.0	ng/L	18.3		103		70-130			
Perfluoroundecanoic acid (PFUnA)	17.9	2.0	ng/L	19.5		91.7		70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	21.3	2.0	ng/L	19.5		109		70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B351727 - EPA 533												
LCS (B351727-BS1)				Prepared: 09/13/23 Analyzed: 09/14/23								
Perfluoroheptanoic acid (PFHpA)	22.1	2.0	ng/L	19.5		113		70-130				
Perfluorooctanoic acid (PFOA)	20.9	2.0	ng/L	19.5		107		70-130				
Perfluorooctanesulfonic acid (PFOS)	20.7	2.0	ng/L	18.0		115		70-130				
Perfluorononanoic acid (PFNA)	23.5	2.0	ng/L	19.5		120		70-130				
Surrogate: M2-4:2FTS	*37.5*		ng/L	36.6		102		50-200				
Surrogate: M2-8:2FTS	*48.6*		ng/L	37.4		130		50-200				
Surrogate: MPFBA	*35.1*		ng/L	39.0		89.9		50-200				
Surrogate: M3HFPO-DA	*35.9*		ng/L	39.0		92.0		50-200				
Surrogate: M6PFDA	*26.1*		ng/L	39.0		66.8		50-200				
Surrogate: M3PFBS	*32.6*		ng/L	36.4		89.5		50-200				
Surrogate: M7PFUnA	*30.9*		ng/L	39.0		79.2		50-200				
Surrogate: M2-6:2FTS	*130*		ng/L	37.1		**350**	*	50-200				S-29
Surrogate: M5PFPeA	*35.2*		ng/L	39.0		90.2		50-200				
Surrogate: M5PFHxA	*26.7*		ng/L	39.0		68.4		50-200				
Surrogate: M3PFHxS	*32.2*		ng/L	37.0		87.1		50-200				
Surrogate: M4PFHpA	*27.6*		ng/L	39.0		70.9		50-200				
Surrogate: M8PFOA	*31.7*		ng/L	39.0		81.2		50-200				
Surrogate: M8PFOS	*31.4*		ng/L	37.4		83.9		50-200				
Surrogate: M9PFNA	*22.6*		ng/L	39.0		58.0		50-200				
Surrogate: MPFDoA	*28.8*		ng/L	39.0		73.9		50-200				
LCS Dup (B351727-BSD1)				Prepared: 09/13/23 Analyzed: 09/14/23								
Perfluorobutanoic acid (PFBA)	25.3	2.0	ng/L	20.1		126		70-130	12.2		30	
Perfluorobutanesulfonic acid (PFBS)	21.4	2.0	ng/L	17.8		120		70-130	12.2		30	
Perfluoropentanoic acid (PFPeA)	24.0	2.0	ng/L	20.1		119		70-130	12.2		30	
Perfluorohexanoic acid (PFHxA)	23.7	2.0	ng/L	20.1		118		70-130	8.73		30	
11Cl-PF3OUdS (F53B Major)	23.6	2.0	ng/L	19.0		124		70-130	4.07		30	
9Cl-PF3ONS (F53B Minor)	20.0	2.0	ng/L	18.8		107		70-130	3.54		30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	20.6	2.0	ng/L	19.0		109		70-130	10.9		30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	14.5	2.0	ng/L	20.1		72.0		70-130	4.06		30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	23.9	2.0	ng/L	19.3		124		70-130	7.53		30	
Perfluorodecanoic acid (PFDA)	25.0	2.0	ng/L	20.1		124		70-130	0.791		30	
Perfluorododecanoic acid (PFDoA)	25.4	2.0	ng/L	20.1		126		70-130	13.4		30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	23.0	2.0	ng/L	17.9		129		70-130	14.6		30	
Perfluoroheptanesulfonic acid (PFHpS)	25.4	2.0	ng/L	19.2		**132**	*	70-130	**32.0**	*	30	L-07A
4:2 Fluorotelomersulfonic acid (4:2FTS A)	23.0	2.0	ng/L	18.8		123		70-130	10.8		30	
Perfluorohexanesulfonic acid (PFHxS)	21.4	2.0	ng/L	18.4		117		70-130	13.9		30	
Perfluoro-4-oxapentanoic acid (PFMPA)	23.7	2.0	ng/L	20.1		118		70-130	10.6		30	
Perfluoro-5-oxahexanoic acid (PFMBA)	21.7	2.0	ng/L	20.1		108		70-130	12.0		30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	23.7	2.0	ng/L	19.1		124		70-130	10.3		30	
Perfluoropentanesulfonic acid (PFPeS)	21.1	2.0	ng/L	18.9		111		70-130	11.4		30	
Perfluoroundecanoic acid (PFUnA)	26.0	2.0	ng/L	20.1		129		70-130	**36.8**	*	30	R-05
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	23.1	2.0	ng/L	20.1		115		70-130	8.21		30	
Perfluoroheptanoic acid (PFHpA)	24.3	2.0	ng/L	20.1		121		70-130	9.50		30	
Perfluorooctanoic acid (PFOA)	25.0	2.0	ng/L	20.1		124		70-130	18.2		30	
Perfluorooctanesulfonic acid (PFOS)	21.6	2.0	ng/L	18.6		116		70-130	3.87		30	
Perfluorononanoic acid (PFNA)	20.0	2.0	ng/L	20.1		99.4		70-130	15.9		30	
Surrogate: M2-4:2FTS	*37.1*		ng/L	37.7		98.3		50-200				
Surrogate: M2-8:2FTS	*50.6*		ng/L	38.6		131		50-200				
Surrogate: MPFBA	*32.6*		ng/L	40.2		80.9		50-200				

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B351727 - EPA 533											
LCS Dup (B351727-BSD1)				Prepared: 09/13/23 Analyzed: 09/14/23							
Surrogate: M3HFPO-DA	*40.3*		ng/L	40.2		100		50-200			
Surrogate: M6PFDA	*30.0*		ng/L	40.2		74.6		50-200			
Surrogate: M3PFBS	*31.8*		ng/L	37.5		84.8		50-200			
Surrogate: M7PFUnA	*28.7*		ng/L	40.2		71.3		50-200			
Surrogate: M2-6:2FTS	*148*		ng/L	38.3		**387**	*	50-200			S-29
Surrogate: M5PFPeA	*32.7*		ng/L	40.2		81.2		50-200			
Surrogate: M5PFHxA	*28.5*		ng/L	40.2		70.9		50-200			
Surrogate: M3PFHxS	*31.9*		ng/L	38.1		83.7		50-200			
Surrogate: M4PFHpA	*28.7*		ng/L	40.2		71.4		50-200			
Surrogate: M8PFOA	*33.5*		ng/L	40.2		83.3		50-200			
Surrogate: M8PFOS	*32.5*		ng/L	38.6		84.3		50-200			
Surrogate: M9PFNA	*27.6*		ng/L	40.2		68.7		50-200			
Surrogate: MPFDoA	*31.0*		ng/L	40.2		76.9		50-200			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-29	Extracted Internal Standard is outside of control limits.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA,CT
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA,CT
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA,CT
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA,CT
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA,CT
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA,CT

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2024
ME	State of Maine	MA00100	06/9/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024

KF 23H3759

Internal Transfer Chain of Custody

Pace

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: [X] Yes ☐ No

Workorder: 70268095 **Workorder Name:** PFAS/POC/1,4 DIOX 8/23

Owner Received Date: 8/23/2023 **Results Requested By:** 9/7/2023

Report To

Jennifer Aracri
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone 516-370-6016

Subcontract To

Pace New England
39 Spruce St.
East Longmeadow, MA 01028
Phone (413)525-2332

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other	PFAS by 533	LAB USE ONLY
1	N-02052	PS	8/23/2023 08:45	70268095001	Drinking	1	X	
2	N-02052 FB	PS	8/23/2023 08:45	70268095002	Drinking	1	X	
3	GAC-02052	PS	8/23/2023 08:41	70268095003	Drinking	1	X	
4	GAC-02052 FB	PS	8/23/2023 08:41	70268095004	Drinking	1	X	
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	MS MA(AN)	8/24/23	MS MA(AN)	8/24 1215
2	MS MA(AN)	8/24 2000	Anthony Green AUG 24 2023 2038	
3	Anthony Green			8/25/23 0145

Comments

25 Compound List

Cooler Temperature on Receipt ____ °C AAL 8/25/23 0515 **Custody Seal** Y or N **Received on Ice** Y or N AAL 8/25/23 07:00 **Samples Intact** Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

AAL 8/25/23 0850 8/25/23 850 2.5

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client: PACE

Project: PFAS/POC/1,4 Dioxane 8/23

MCP/RCP Required: N/A

Deliverable Package Requirement: MA

Location: PFAS/POC/1,4

PWSID# (When Applicable): N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time: LA 8/25/23 850

Back-Sheet By / Date / Time: LA 8/25/23 1652

Temperature Method: gun # 5/2(A)

Temp ✓ < 6° C Actual Temperature: 2.5

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☑	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☑
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	(Circle Amb/Clear)	Soils Jars																				
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear																						
Unpreserved	1 Liter	Ambers																				
HCL																						
Sulfuric																						
Sulfuric	250mL																					
Phosphoric																						
HCl																						
Unpreserved	100mL																					
Unpreserved	1 Liter	Plastics																				
Sulfuric																						
Unpreserved	500mL																					
Sulfuric																						
Unpreserved	250mL																					
Trizma																						
Sulfuric																						
Nitric																						
NaOH																						
Ammonium Acetate			2	2	2	1																
NaOH/Zinc																						
Unpreserved		VOA Vials																				
HCl																						
MeOH																						
D.I. Water																						
BiSulfate																						
Col/Bact		Other / Fill in																				

Qualtrax ID: 120836

Page 2 of 2

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70265939001
Client Sample ID.: N-07552

Federal ID : 2912267
Collected : 08/07/2023 08:22 AM Point N-07552
Received : 08/07/2023 03:00 PM Location Morely Pk 9
Collected By CLIENT No Hls

Analytical Method:EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrate as N	3.7		5	mg/L	10	08/07/2023 11:36	001 BP4U1/1
Nitrate-Nitrite (as N)	3.8		5	mg/L		08/07/2023 11:36	001 BP4U1/1

Analytical Method:EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	08/07/2023 9:31 PM	001 BP4U1/1

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 08/17/2023 11:53

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	**12.6***		5	ug/L	1	08/18/2023 3:09 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	115%		5	%REC		08/18/2023 3:09 PM	001 AG2R1/2

Analytical Method:EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,1,1-Trichloroethane	1.6		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3,L2	1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,1-Dichloroethene	**8.4***		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Benzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
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Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70265939001
Client Sample ID.: N-07552

Federal ID : 2912267
Collected : 08/07/2023 08:22 AM Point N-07552
Received : 08/07/2023 03:00 PM Location Morely Pk 9
Collected By CLIENT No Hls

Bromochloromethane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		08/10/2023 7:35 PM	001 VG9C1/2
Bromoform	<0.50		1	ug/L		08/10/2023 7:35 PM	001 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Chlorodifluoromethane	<0.50	N3,L2	1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Chloroform	1.2		1	ug/L		08/10/2023 7:35 PM	001 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		08/10/2023 7:35 PM	001 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Dichlorodifluoromethane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	08/10/2023 7:35 PM	001 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Styrene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Tetrachloroethene	**6.3***		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Toluene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Total Trihalomethanes (Calc.)	1.2		1	ug/L	80	08/10/2023 7:35 PM	001 VG9C1/2
Trichloroethene	**6.2***		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	08/10/2023 7:35 PM	001 VG9C1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
m&p-Xylene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
sec-Butylbenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	08/10/2023 7:35 PM	001 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	79%		1	%REC		08/10/2023 7:35 PM	001 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	89%		1	%REC		08/10/2023 7:35 PM	001 VG9C1/2

Analytical Method: SM22 9223B Colilert Prep Method: SM22 9223B Colilert Prep Date: 08/07/2023 5:28 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
E.coli	Absent		1		Absent	08/08/2023 11:28	001 SP5T1/1
Total Coliforms	Absent		1		Absent	08/08/2023 11:28	001 SP5T1/1

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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WorkOrder :
70265939

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70265939

Additional Qualifiers

L2 - Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 31, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: BAC/POC/NO3/1,4DIOX/PFAS 8/7
Client Job Number:
Project Number: 70265939
Laboratory Work Order Number: 23H1370

Enclosed are results of analyses for samples as received by the laboratory on August 9, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 8/31/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70265939

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23H1370

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: BAC/POC/NO3/1,4DIOX/PFAS 8/7

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-07552	23H1370-01	Drinking Water		EPA 533	
N-07552 FB	23H1370-02	Field Blank		EPA 533	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 533

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

6:2 Fluorotelomersulfonic acid (6:2FTS A)
B349210-BLK1, B349210-BS1, B349210-BSD1

B-05

Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".

Analyte & Samples(s) Qualified:

6:2 Fluorotelomersulfonic acid (6:2FTS A)
23H1370-02[N-07552 FB]

L-06

Laboratory fortified blank/laboratory control sample recovery and/or duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

6:2 Fluorotelomersulfonic acid (6:2FTS A)
B349210-BS1, B349210-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

6:2 Fluorotelomersulfonic acid (6:2FTS A)
B350131-BSD1

PF-18

Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:

M9PFNA
23H1370-01RE1[N-07552]

Z-01

Detection in field blank >1/3 MRL. Detections for this analyte in associated sample should be considered suspect.

Analyte & Samples(s) Qualified:

6:2 Fluorotelomersulfonic acid (6:2FTS A)
23H1370-02[N-07552 FB]

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan E. Kelley
Reporting Specialist

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BAC/POC/NO3/1,4DIOX/PFAS 8 Sample Description: Work Order: 23H1370

Date Received: 8/9/2023

Field Sample #: N-07552 Sampled: 8/7/2023 08:22

Sample ID: 23H1370-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluorohexanesulfonic acid (PFHxS)	3.7	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluorooctanoic acid (PFOA)	4.8	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluorooctanesulfonic acid (PFOS)	7.1	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW
Perfluorononanoic acid (PFNA)	14	1.9		ng/L	1		EPA 533	8/25/23	8/29/23 17:05	QNW

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	69.5		50-200		8/29/23 17:05
M2-8:2FTS	92.5		50-200		8/29/23 17:05
MPFBA	72.9		50-200		8/29/23 17:05
M3HFPO-DA	51.0		50-200		8/29/23 17:05
M6PFDA	51.7		50-200		8/29/23 17:05
M3PFBS	91.1		50-200		8/29/23 17:05
M7PFUnA	52.6		50-200		8/29/23 17:05
M2-6:2FTS	141		50-200		8/29/23 17:05
M5PFPeA	73.4		50-200		8/29/23 17:05
M5PFHxA	58.5		50-200		8/29/23 17:05
M3PFHxS	85.3		50-200		8/29/23 17:05
M4PFHpA	58.9		50-200		8/29/23 17:05
M8PFOA	64.4		50-200		8/29/23 17:05
M8PFOS	89.7		50-200		8/29/23 17:05
M9PFNA	**48.2**	*	50-200	PF-18	8/29/23 17:05
MPFDoA	53.4		50-200		8/29/23 17:05

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Project Location: BAC/POC/NO3/1,4DIOX/PFAS 8 Sample Description: Work Order: 23H1370

Date Received: 8/9/2023

Field Sample #: N-07552 FB Sampled: 8/7/2023 08:22

Sample ID: 23H1370-02

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L	1	B-05, Z-01	EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	8/21/23	8/23/23 22:40	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	60.4	50-200		8/23/23 22:40
M2-8:2FTS	61.5	50-200		8/23/23 22:40
MPFBA	80.8	50-200		8/23/23 22:40
M3HFPO-DA	77.8	50-200		8/23/23 22:40
M6PFDA	70.8	50-200		8/23/23 22:40
M3PFBS	81.1	50-200		8/23/23 22:40
M7PFUnA	81.3	50-200		8/23/23 22:40
M2-6:2FTS	78.2	50-200		8/23/23 22:40
M5PFPeA	79.9	50-200		8/23/23 22:40
M5PFHxA	76.8	50-200		8/23/23 22:40
M3PFHxS	79.5	50-200		8/23/23 22:40
M4PFHpA	77.4	50-200		8/23/23 22:40
M8PFOA	79.2	50-200		8/23/23 22:40
M8PFOS	80.5	50-200		8/23/23 22:40
M9PFNA	78.4	50-200		8/23/23 22:40
MPFDoA	73.0	50-200		8/23/23 22:40

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Sample Extraction Data

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23H1370-02 [N-07552 FB]	B349210	263	1.00	08/21/23

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23H1370-01RE1 [N-07552]	B350131	267	1.00	08/25/23

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B349210 - EPA 533										
Blank (B349210-BLK1)				Prepared: 08/21/23 Analyzed: 08/23/23						
Perfluorobutanoic acid (PFBA)	ND	1.8	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	3.0	1.8	ng/L							B
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8	ng/L							
Surrogate: M2-4:2FTS	*26.7*		ng/L	34.6		77.0	50-200			
Surrogate: M2-8:2FTS	*25.5*		ng/L	35.5		71.8	50-200			
Surrogate: MPFBA	*31.3*		ng/L	36.9		84.8	50-200			
Surrogate: M3HFPO-DA	*26.1*		ng/L	36.9		70.5	50-200			
Surrogate: M6PFDA	*26.7*		ng/L	36.9		72.3	50-200			
Surrogate: M3PFBS	*28.6*		ng/L	34.4		83.0	50-200			
Surrogate: M7PFUnA	*27.5*		ng/L	36.9		74.4	50-200			
Surrogate: M2-6:2FTS	*30.2*		ng/L	35.1		85.9	50-200			
Surrogate: M5PFPeA	*31.2*		ng/L	36.9		84.4	50-200			
Surrogate: M5PFHxA	*28.9*		ng/L	36.9		78.1	50-200			
Surrogate: M3PFHxS	*29.1*		ng/L	35.0		83.2	50-200			
Surrogate: M4PFHpA	*29.5*		ng/L	36.9		80.0	50-200			
Surrogate: M8PFOA	*29.7*		ng/L	36.9		80.4	50-200			
Surrogate: M8PFOS	*30.0*		ng/L	35.4		84.6	50-200			
Surrogate: M9PFNA	*28.2*		ng/L	36.9		76.4	50-200			
Surrogate: MPFDoA	*26.8*		ng/L	36.9		72.6	50-200			
LCS (B349210-BS1)				Prepared: 08/21/23 Analyzed: 08/23/23						
Perfluorobutanoic acid (PFBA)	10.8	1.9	ng/L	9.50		114	70-130			
Perfluorobutanesulfonic acid (PFBS)	9.44	1.9	ng/L	8.41		112	70-130			
Perfluoropentanoic acid (PFPeA)	10.7	1.9	ng/L	9.50		113	70-130			
Perfluorohexanoic acid (PFHxA)	11.3	1.9	ng/L	9.50		119	70-130			
11Cl-PF3OUdS (F53B Major)	8.92	1.9	ng/L	8.95		99.7	70-130			
9Cl-PF3ONS (F53B Minor)	8.66	1.9	ng/L	8.85		97.9	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B349210 - EPA 533											
LCS (B349210-BS1)				Prepared: 08/21/23 Analyzed: 08/23/23							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	10.5	1.9	ng/L	8.95		117		70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.92	1.9	ng/L	9.50		104		70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	10.8	1.9	ng/L	9.12		118		70-130			
Perfluorodecanoic acid (PFDA)	11.1	1.9	ng/L	9.50		116		70-130			
Perfluorododecanoic acid (PFDoA)	10.8	1.9	ng/L	9.50		114		70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	10.5	1.9	ng/L	8.45		124		70-130			
Perfluoroheptanesulfonic acid (PFHpS)	10.4	1.9	ng/L	9.07		114		70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	9.57	1.9	ng/L	8.88		108		70-130			
Perfluorohexanesulfonic acid (PFHxS)	10.0	1.9	ng/L	8.69		115		70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	9.78	1.9	ng/L	9.50		103		70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	9.88	1.9	ng/L	9.50		104		70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	13.0	1.9	ng/L	9.02		**144**	*	70-130			L-06, B
Perfluoropentanesulfonic acid (PFPeS)	10.3	1.9	ng/L	8.93		116		70-130			
Perfluoroundecanoic acid (PFUnA)	10.6	1.9	ng/L	9.50		112		70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	11.6	1.9	ng/L	9.50		123		70-130			
Perfluoroheptanoic acid (PFHpA)	11.0	1.9	ng/L	9.50		115		70-130			
Perfluorooctanoic acid (PFOA)	10.7	1.9	ng/L	9.50		113		70-130			
Perfluorooctanesulfonic acid (PFOS)	9.66	1.9	ng/L	8.79		110		70-130			
Perfluorononanoic acid (PFNA)	11.8	1.9	ng/L	9.50		124		70-130			
Surrogate: M2-4:2FTS	*25.8*		ng/L	35.6		72.3		50-200			
Surrogate: M2-8:2FTS	*26.7*		ng/L	36.5		73.2		50-200			
Surrogate: MPFBA	*32.5*		ng/L	38.0		85.5		50-200			
Surrogate: M3HFPO-DA	*27.7*		ng/L	38.0		73.0		50-200			
Surrogate: M6PFDA	*29.2*		ng/L	38.0		76.8		50-200			
Surrogate: M3PFBS	*29.4*		ng/L	35.4		83.1		50-200			
Surrogate: M7PFUnA	*31.2*		ng/L	38.0		82.2		50-200			
Surrogate: M2-6:2FTS	*31.3*		ng/L	36.1		86.5		50-200			
Surrogate: M5PFPeA	*32.1*		ng/L	38.0		84.5		50-200			
Surrogate: M5PFHxA	*30.3*		ng/L	38.0		79.6		50-200			
Surrogate: M3PFHxS	*29.8*		ng/L	36.0		82.7		50-200			
Surrogate: M4PFHpA	*30.5*		ng/L	38.0		80.3		50-200			
Surrogate: M8PFOA	*32.2*		ng/L	38.0		84.8		50-200			
Surrogate: M8PFOS	*31.3*		ng/L	36.4		85.8		50-200			
Surrogate: M9PFNA	*29.6*		ng/L	38.0		77.9		50-200			
Surrogate: MPFDoA	*31.9*		ng/L	38.0		83.9		50-200			
LCS Dup (B349210-BSD1)				Prepared: 08/21/23 Analyzed: 08/23/23							
Perfluorobutanoic acid (PFBA)	10.4	1.8	ng/L	9.14		114		70-130	3.66	30	
Perfluorobutanesulfonic acid (PFBS)	9.06	1.8	ng/L	8.09		112		70-130	4.11	30	
Perfluoropentanoic acid (PFPeA)	10.3	1.8	ng/L	9.14		113		70-130	4.01	30	
Perfluorohexanoic acid (PFHxA)	10.9	1.8	ng/L	9.14		119		70-130	3.55	30	
11Cl-PF3OUdS (F53B Major)	7.93	1.8	ng/L	8.61		92.1		70-130	11.8	30	
9Cl-PF3ONS (F53B Minor)	8.37	1.8	ng/L	8.52		98.2		70-130	3.51	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.93	1.8	ng/L	8.61		115		70-130	5.16	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.51	1.8	ng/L	9.14		104		70-130	4.16	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	9.83	1.8	ng/L	8.78		112		70-130	9.21	30	
Perfluorodecanoic acid (PFDA)	10.5	1.8	ng/L	9.14		115		70-130	4.93	30	
Perfluorododecanoic acid (PFDoA)	11.0	1.8	ng/L	9.14		120		70-130	1.60	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B349210 - EPA 533											
LCS Dup (B349210-BSD1)				Prepared: 08/21/23 Analyzed: 08/23/23							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	9.96	1.8	ng/L	8.14		122		70-130	5.44	30	
Perfluoroheptanesulfonic acid (PFHpS)	9.90	1.8	ng/L	8.73		113		70-130	4.65	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	9.48	1.8	ng/L	8.55		111		70-130	0.917	30	
Perfluorohexanesulfonic acid (PFHxS)	9.64	1.8	ng/L	8.36		115		70-130	3.70	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	9.38	1.8	ng/L	9.14		103		70-130	4.23	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	9.40	1.8	ng/L	9.14		103		70-130	5.02	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	17.3	1.8	ng/L	8.68		**199**	*	70-130	28.7	30	L-06, B
Perfluoropentanesulfonic acid (PFPeS)	10.1	1.8	ng/L	8.59		118		70-130	1.81	30	
Perfluoroundecanoic acid (PFUnA)	10.3	1.8	ng/L	9.14		113		70-130	2.54	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	11.2	1.8	ng/L	9.14		123		70-130	3.79	30	
Perfluoroheptanoic acid (PFHpA)	10.8	1.8	ng/L	9.14		118		70-130	1.58	30	
Perfluorooctanoic acid (PFOA)	10.7	1.8	ng/L	9.14		117		70-130	0.390	30	
Perfluorooctanesulfonic acid (PFOS)	9.59	1.8	ng/L	8.46		113		70-130	0.697	30	
Perfluorononanoic acid (PFNA)	11.0	1.8	ng/L	9.14		121		70-130	6.41	30	
Surrogate: M2-4:2FTS	*24.5*		ng/L	34.3		71.5		50-200			
Surrogate: M2-8:2FTS	*25.3*		ng/L	35.1		72.1		50-200			
Surrogate: MPFBA	*30.5*		ng/L	36.6		83.3		50-200			
Surrogate: M3HFPO-DA	*24.5*		ng/L	36.6		67.0		50-200			
Surrogate: M6PFDA	*26.5*		ng/L	36.6		72.4		50-200			
Surrogate: M3PFBS	*27.8*		ng/L	34.1		81.6		50-200			
Surrogate: M7PFUnA	*28.6*		ng/L	36.6		78.2		50-200			
Surrogate: M2-6:2FTS	*30.9*		ng/L	34.8		88.9		50-200			
Surrogate: M5PFPeA	*30.3*		ng/L	36.6		82.9		50-200			
Surrogate: M5PFHxA	*28.2*		ng/L	36.6		77.0		50-200			
Surrogate: M3PFHxS	*27.4*		ng/L	34.7		79.1		50-200			
Surrogate: M4PFHpA	*28.6*		ng/L	36.6		78.2		50-200			
Surrogate: M8PFOA	*29.3*		ng/L	36.6		80.2		50-200			
Surrogate: M8PFOS	*28.5*		ng/L	35.1		81.2		50-200			
Surrogate: M9PFNA	*27.8*		ng/L	36.6		75.9		50-200			
Surrogate: MPFDoA	*26.4*		ng/L	36.6		72.2		50-200			
Batch B350131 - EPA 533											
Blank (B350131-BLK1)				Prepared: 08/25/23 Analyzed: 08/29/23							
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L								
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L								
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L								
11Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L								
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L								
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/L								
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L								
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	ng/L								
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L								
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L								
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L								
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L								

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B350131 - EPA 533										
Blank (B350131-BLK1)				Prepared: 08/25/23 Analyzed: 08/29/23						
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Surrogate: M2-4:2FTS	*33.7*		ng/L	36.7		91.7	50-200			
Surrogate: M2-8:2FTS	*38.1*		ng/L	37.6		101	50-200			
Surrogate: MPFBA	*35.1*		ng/L	39.2		89.5	50-200			
Surrogate: M3HFPO-DA	*33.0*		ng/L	39.2		84.1	50-200			
Surrogate: M6PFDA	*33.3*		ng/L	39.2		85.0	50-200			
Surrogate: M3PFBS	*35.2*		ng/L	36.5		96.5	50-200			
Surrogate: M7PFUnA	*31.4*		ng/L	39.2		80.1	50-200			
Surrogate: M2-6:2FTS	*63.0*		ng/L	37.3		169	50-200			
Surrogate: M5PFPeA	*35.0*		ng/L	39.2		89.3	50-200			
Surrogate: M5PFHxA	*30.3*		ng/L	39.2		77.3	50-200			
Surrogate: M3PFHxS	*35.6*		ng/L	37.1		95.9	50-200			
Surrogate: M4PFHpA	*31.1*		ng/L	39.2		79.4	50-200			
Surrogate: M8PFOA	*34.5*		ng/L	39.2		88.1	50-200			
Surrogate: M8PFOS	*35.8*		ng/L	37.6		95.2	50-200			
Surrogate: M9PFNA	*30.2*		ng/L	39.2		77.1	50-200			
Surrogate: MPFDoA	*31.2*		ng/L	39.2		79.8	50-200			
LCS (B350131-BS1)				Prepared: 08/25/23 Analyzed: 08/29/23						
Perfluorobutanoic acid (PFBA)	2.31	2.0	ng/L	1.96		118	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.97	2.0	ng/L	1.73		114	50-150			
Perfluoropentanoic acid (PFPeA)	2.29	2.0	ng/L	1.96		117	50-150			
Perfluorohexanoic acid (PFHxA)	2.39	2.0	ng/L	1.96		122	50-150			
11Cl-PF3OUdS (F53B Major)	2.05	2.0	ng/L	1.84		111	50-150			
9Cl-PF3ONS (F53B Minor)	1.84	2.0	ng/L	1.82		101	50-150			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.80	2.0	ng/L	1.84		97.8	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.12	2.0	ng/L	1.96		108	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.20	2.0	ng/L	1.88		117	50-150			
Perfluorodecanoic acid (PFDA)	2.16	2.0	ng/L	1.96		110	50-150			
Perfluorododecanoic acid (PFDoA)	2.18	2.0	ng/L	1.96		111	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.99	2.0	ng/L	1.74		114	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	2.09	2.0	ng/L	1.87		112	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.00	2.0	ng/L	1.83		109	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.25	2.0	ng/L	1.79		126	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	2.13	2.0	ng/L	1.96		109	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	2.02	2.0	ng/L	1.96		103	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.62	2.0	ng/L	1.86		141	50-150			
Perfluoropentanesulfonic acid (PFPeS)	2.05	2.0	ng/L	1.84		111	50-150			
Perfluoroundecanoic acid (PFUnA)	2.20	2.0	ng/L	1.96		112	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.34	2.0	ng/L	1.96		119	50-150			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B350131 - EPA 533											
LCS (B350131-BS1)				Prepared: 08/25/23 Analyzed: 08/29/23							
Perfluoroheptanoic acid (PFHpA)	2.17	2.0	ng/L	1.96		111		50-150			
Perfluorooctanoic acid (PFOA)	2.56	2.0	ng/L	1.96		131		50-150			
Perfluorooctanesulfonic acid (PFOS)	2.04	2.0	ng/L	1.81		113		50-150			
Perfluorononanoic acid (PFNA)	2.09	2.0	ng/L	1.96		107		50-150			
Surrogate: M2-4:2FTS	*32.0*		ng/L	36.7		87.0		50-200			
Surrogate: M2-8:2FTS	*34.3*		ng/L	37.6		91.3		50-200			
Surrogate: MPFBA	*35.6*		ng/L	39.2		91.0		50-200			
Surrogate: M3HFPO-DA	*34.2*		ng/L	39.2		87.3		50-200			
Surrogate: M6PFDA	*31.5*		ng/L	39.2		80.5		50-200			
Surrogate: M3PFBS	*36.0*		ng/L	36.5		98.6		50-200			
Surrogate: M7PFUnA	*31.6*		ng/L	39.2		80.8		50-200			
Surrogate: M2-6:2FTS	*64.4*		ng/L	37.2		173		50-200			
Surrogate: M5PFPeA	*36.1*		ng/L	39.2		92.2		50-200			
Surrogate: M5PFHxA	*30.3*		ng/L	39.2		77.4		50-200			
Surrogate: M3PFHxS	*34.3*		ng/L	37.1		92.3		50-200			
Surrogate: M4PFHpA	*31.3*		ng/L	39.2		79.8		50-200			
Surrogate: M8PFOA	*34.7*		ng/L	39.2		88.7		50-200			
Surrogate: M8PFOS	*34.9*		ng/L	37.5		93.0		50-200			
Surrogate: M9PFNA	*29.5*		ng/L	39.2		75.3		50-200			
Surrogate: MPFDoA	*30.8*		ng/L	39.2		78.8		50-200			
LCS Dup (B350131-BSD1)				Prepared: 08/25/23 Analyzed: 08/29/23							
Perfluorobutanoic acid (PFBA)	2.11	2.0	ng/L	1.99		106		50-150	8.81	50	
Perfluorobutanesulfonic acid (PFBS)	1.86	2.0	ng/L	1.76		105		50-150	6.06	50	
Perfluoropentanoic acid (PFPeA)	2.13	2.0	ng/L	1.99		107		50-150	7.27	50	
Perfluorohexanoic acid (PFHxA)	2.07	2.0	ng/L	1.99		104		50-150	14.2	50	
11Cl-PF3OUdS (F53B Major)	1.62	2.0	ng/L	1.88		86.2		50-150	23.7	50	
9Cl-PF3ONS (F53B Minor)	1.64	2.0	ng/L	1.86		88.3		50-150	11.4	50	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.69	2.0	ng/L	1.88		90.2		50-150	6.41	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.10	2.0	ng/L	1.99		105		50-150	1.00	50	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.88	2.0	ng/L	1.91		98.1		50-150	16.1	50	
Perfluorodecanoic acid (PFDA)	2.00	2.0	ng/L	1.99		101		50-150	7.62	50	
Perfluorododecanoic acid (PFDoA)	2.17	2.0	ng/L	1.99		109		50-150	0.204	50	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.78	2.0	ng/L	1.77		100		50-150	11.4	50	
Perfluoroheptanesulfonic acid (PFHpS)	2.13	2.0	ng/L	1.90		112		50-150	2.07	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.07	2.0	ng/L	1.86		111		50-150	3.50	50	
Perfluorohexanesulfonic acid (PFHxS)	1.80	2.0	ng/L	1.82		99.0		50-150	22.2	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	1.89	2.0	ng/L	1.99		94.9		50-150	11.7	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.89	2.0	ng/L	1.99		95.0		50-150	6.31	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	3.00	2.0	ng/L	1.89		**158**	*	50-150	13.4	50	L-07
Perfluoropentanesulfonic acid (PFPeS)	1.62	2.0	ng/L	1.87		86.3		50-150	23.5	50	
Perfluoroundecanoic acid (PFUnA)	2.19	2.0	ng/L	1.99		110		50-150	0.670	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	2.0	ng/L	1.99		101		50-150	14.9	50	
Perfluoroheptanoic acid (PFHpA)	2.01	2.0	ng/L	1.99		101		50-150	7.82	50	
Perfluorooctanoic acid (PFOA)	2.19	2.0	ng/L	1.99		110		50-150	15.3	50	
Perfluorooctanesulfonic acid (PFOS)	1.53	2.0	ng/L	1.84		83.2		50-150	28.5	50	
Perfluorononanoic acid (PFNA)	2.06	2.0	ng/L	1.99		104		50-150	1.03	50	
Surrogate: M2-4:2FTS	*35.0*		ng/L	37.4		93.6		50-200			
Surrogate: M2-8:2FTS	*37.1*		ng/L	38.3		96.9		50-200			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B350131 - EPA 533										
LCS Dup (B350131-BSD1)				Prepared: 08/25/23 Analyzed: 08/29/23						
Surrogate: MPFBA	*30.9*		ng/L	39.9		77.4	50-200			
Surrogate: M3HFPO-DA	*26.0*		ng/L	39.9		65.3	50-200			
Surrogate: M6PFDA	*30.4*		ng/L	39.9		76.4	50-200			
Surrogate: M3PFBS	*35.4*		ng/L	37.1		95.2	50-200			
Surrogate: M7PFUnA	*30.3*		ng/L	39.9		75.9	50-200			
Surrogate: M2-6:2FTS	*68.2*		ng/L	37.9		180	50-200			
Surrogate: M5PFPeA	*30.8*		ng/L	39.9		77.4	50-200			
Surrogate: M5PFHxA	*27.0*		ng/L	39.9		67.8	50-200			
Surrogate: M3PFHxS	*35.9*		ng/L	37.8		95.0	50-200			
Surrogate: M4PFHpA	*28.8*		ng/L	39.9		72.1	50-200			
Surrogate: M8PFOA	*31.8*		ng/L	39.9		79.8	50-200			
Surrogate: M8PFOS	*36.7*		ng/L	38.2		96.0	50-200			
Surrogate: M9PFNA	*27.7*		ng/L	39.9		69.4	50-200			
Surrogate: MPFDoA	*30.0*		ng/L	39.9		75.3	50-200			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-05	Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".
L-06	Laboratory fortified blank/laboratory control sample recovery and/or duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
PF-18	Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.
Z-01	Detection in field blank >1/3 MRL. Detections for this analyte in associated sample should be considered suspect.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA,CT
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA,CT
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA,CT
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA,CT
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA,CT
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA,CT

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2024
ME	State of Maine	MA00100	06/9/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024

23H1370

Internal Transfer Chain of Custody

KAF

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY

Cert. Needed: [X] Yes ☐ No

Pace

Workorder: 70265939 **Workorder Name:** BAC/POC/NO3/1,4 DIOX/PFAS 8/7 **Owner Received Date:** 8/7/2023 **Results Requested By:** 8/22/2023

Report To

Jennifer Aracri
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone (631)694-3040

Subcontract To

Pace New England
39 Spruce St.
East Longmeadow, MA 01028
Phone (413)525-2332

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other						PFAS by 533												LAB USE ONLY
1	N-07552	PS	8/7/2023 08:22	70265939001	Drinking	1						X												
2	N-07552 FB	PS	8/7/2023 08:22	70265939002	Drinking	1						X												
3																								
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	8/8/23 1800	MSMA(AN)	8/8 1730
2	MSMA(AN)	8/8 2000	Anthony Green	AUG 08 2023 2100
3	Anthony Green	8/9/23 0100	[illegible]	8/9/23 0100

Comments

25 Compound List

Cooler Temperature on Receipt _____ °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*

This chain of custody is considered complete as is since this information is available in the owner laboratory.

[illegible] 8/9/23 0330 [illegible] AAL 8/9/23 07:00

[illegible] AAL 8/9/23 09:45 [illegible] 8-9-23 0945 3.2°C

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Pace- Melville

Project PFAS 533 - JA

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location BAC/POC/NO3/1,4DIOX/PFAS 8/7

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time AAM/8-9-23/0915

Back-Sheet By / Date / Time AAM/8-9-23/0945

Temperature Method Temp. Gun # 5

Temp ✓≤6° C Actual Temperature 3.2°C

Rush Samples: Yes / No Notify

Short Hold: Yes / No Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☐
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

Sample	Soils Jars (Circle Amb/Clear)				Ambers							Plastics											VOA Vials					Other / Fill in					
					1 Liter			250mL			100mL	1 Liter		500mL		250mL																	
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact					
1																					2												
2																					1												
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Page 2 of 2

Qualtrax ID: 120836

WO#: 70265939

70265939

Rel: [illegible] 8-7-23 1500

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 8/7/23

Collected By: Andrew Prignano

Accepted By: [illegible] 8-7-23 1245

Cooler Temp: 4.5 °C

☐ WELL OFF LINE

☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info: Paul Prignano, Superintendent

Name or Code: Port Washington Water District

Address: 38 Sandy Hollow Road
P.O. Box 432
Port Washington, NY 11050

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
8/7/23 8:22	GW	Morley 9 N-07552	RW	O	RO			BAC, POC, Nitrate, SOC Dioxane, 533 w Field Blank	

Remarks:

Client: PWW

Profile #: 5141

Work ID: BACI/POC/NO3/1,4DIO/PFAS

COC Page 8/7 of

☒ Use Point Number Spreadsheet

☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
1			2																	2																2					1										
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Container Codes

Glass			
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass
VG9S	40mL Sulfuric clear vial	AG1U	1liter unpres amber glass
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass
		AG1A	(NH4Cl)
WG9O	8oz clear soil jar		
WG4O	4oz clear soil jar		

Plastic	
BP4U	125mL unpreserved plastic
BP3U	250mL unpreserved plastic
BP2U	500mL unpreserved plastic
BP1U	1L unpreserved plastic
BP4N	125mL HNO3 plastic
BP3N	250mL HNO3 plastic
BP2N	500mL HNO3 plastic
BP3S	250mL H2SO4 plastic
BP2S	500mL H2SO4 plastic
BP3C	NaOH 250mL bottle
BP3T	250mL Trizma
BP3S	250mL Ammonium Acetate
BP3R	250mL NH4SO4-NH4OH
BP1Z	1L NaOH, Zn Acetate
BP1N	1L HNO3 plastic
BP1B	Na Thiosulfate Amber Bottle

Misc.	
SP5T	120mL Coliform Na Thio
R	Terracore Kit
WG2U	2oz Unpreserved Jar
WGFU	4oz Unpreserved Jar
WGKU	8oz Unpreserved Jar
WGDU	16oz Unpreserved Jar
ZPLC	Ziplock Bag
TEDL	Tedlar Bag
BG1H	1L HCL Clear Glass
GN	General
WP	Wipe

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClAcletic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosultate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials _____

Additional Comments

WO#: 70265939

PM: JSA Due Date: 08/17/23

CLIENT: PWW

WO#: 70265939
PM: JSA **Due Date: 08/17/23**
CLIENT: PWW

Client Name: PWD Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No Temperature Blank Present: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other Type of Ice: ☑ Blue None

Thermometer Used: TH196 Correction Factor: -0.4 ☐Samples on ice, cooling process has begun
Cooler Temperature(°C): 4.5 Cooler Temperature Corrected(°C): 4.1 Date/Time 5035A kits placed in freezer TK 8-7-23
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☑Yes	☑No	AS 8/7	6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☑Yes	☐No		12.

Date and Initials of person checking preservation:

All containers needing preservation have been pH paper Lot #	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☑N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70270817001
Client Sample ID.: N-07552

Federal ID : 2912267
Collected : 08/24/2023 10:05 AM Point N-07552
Received : 09/18/2023 12:35 PM Location Morely Pk 9
Collected By CLIENT No Hls

Sample Comments:
RUN TO WASTE

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 09/19/2023 10:18

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.23		1	ug/L	1	09/19/2023 6:22 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	94%		1	%REC		09/19/2023 6:22 PM	001 AG2R1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 09/26/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70270817

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

WO#: 70270817

70270817

...47

...(631) 420-8436

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 9/18/23

Collected By: J. Skl. 64

Accepted By: 9/18/23 1235

Cooler Temp: 4.7 °C

☑ WELL OFF LINE

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Paul Prignano, Superintendent

Address: Port Washington Water District
38 Sandy Hollow Road
P.O. Box 432
Port Washington, NY 11050

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl2	Field Readings pH/Temp	Analysis	Lab No.
9/18/23 10:05 AM	GW	Morley Park 9 N-07552	RW	O	RO			Dioxane Method 533 with Field Blank	

Remarks:

WO#: 70270817
PM: JSA **Due Date: 09/28/23**
CLIENT: PWW

Client Name: PWW Project

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No Temperature Blank Present: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other Type of Ice: (Wet) Blue None

Thermometer Used: TH197 Correction Factor: -0.4 ☑ Samples on ice, cooling process has begun
Cooler Temperature(°C): 4.7 Cooler Temperature Corrected(°C): 4.3 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: AS 9/18/23

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used: -Pace Containers Used:	☑Yes ☑Yes	☐No ☐No		9.
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☑Yes	☐No		12.

Date and Initials of person checking preservation: AS

All containers needing preservation have been pH paper Lot #	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☑N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	16.
Trip Blank Present: Trip Blank Custody Seals Present	☐Yes ☐Yes	☐No ☐No	☑N/A ☑N/A	17.

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

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A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 25, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: 1,4 DIO/PFAS 9/18
Client Job Number:
Project Number: 70270817
Laboratory Work Order Number: 23I2490

Enclosed are results of analyses for samples as received by the laboratory on September 20, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 9/25/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70270817

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23I2490

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1,4 DIO/PFAS 9/18

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-07552	23I2490-01	Drinking Water		EPA 533	
N-07552 FB	23I2490-02	Field Blank		EPA 533	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4 DIO/PFAS 9/18 Sample Description: Work Order: 23I2490

Date Received: 9/20/2023

Field Sample #: N-07552 Sampled: 8/24/2023 10:05

Sample ID: 23I2490-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluorohexanoic acid (PFHxA)	1.9	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluorohexanesulfonic acid (PFHxS)	4.0	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluorooctanoic acid (PFOA)	5.4	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluorooctanesulfonic acid (PFOS)	6.8	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2
Perfluorononanoic acid (PFNA)	14	1.9		ng/L	1		EPA 533	9/18/23	9/25/23 12:08	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	58.0	50-200		9/25/23 12:08
M2-8:2FTS	88.6	50-200		9/25/23 12:08
MPFBA	91.8	50-200		9/25/23 12:08
M3HFPO-DA	88.6	50-200		9/25/23 12:08
M6PFDA	84.4	50-200		9/25/23 12:08
M3PFBS	96.9	50-200		9/25/23 12:08
M7PFUnA	85.4	50-200		9/25/23 12:08
M2-6:2FTS	143	50-200		9/25/23 12:08
M5PFPeA	91.7	50-200		9/25/23 12:08
M5PFHxA	84.1	50-200		9/25/23 12:08
M3PFHxS	96.0	50-200		9/25/23 12:08
M4PFHpA	82.9	50-200		9/25/23 12:08
M8PFOA	88.7	50-200		9/25/23 12:08
M8PFOS	99.4	50-200		9/25/23 12:08
M9PFNA	85.5	50-200		9/25/23 12:08
MPFDoA	81.2	50-200		9/25/23 12:08

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4 DIO/PFAS 9/18 | Sample Description: | Work Order: 23I2490

Date Received: 9/20/2023

Field Sample #: N-07552 FB | Sampled: 8/24/2023 10:05

Sample ID: 23I2490-02

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluorooctanoic acid (PFOA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2
Perfluorononanoic acid (PFNA)	ND	1.8	ng/L	1		EPA 533	9/18/23	9/25/23 12:16	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	63.3	50-200		9/25/23 12:16
M2-8:2FTS	97.5	50-200		9/25/23 12:16
MPFBA	104	50-200		9/25/23 12:16
M3HFPO-DA	102	50-200		9/25/23 12:16
M6PFDA	101	50-200		9/25/23 12:16
M3PFBS	100	50-200		9/25/23 12:16
M7PFUnA	99.1	50-200		9/25/23 12:16
M2-6:2FTS	150	50-200		9/25/23 12:16
M5PFPeA	103	50-200		9/25/23 12:16
M5PFHxA	97.2	50-200		9/25/23 12:16
M3PFHxS	100	50-200		9/25/23 12:16
M4PFHpA	100	50-200		9/25/23 12:16
M8PFOA	104	50-200		9/25/23 12:16
M8PFOS	102	50-200		9/25/23 12:16
M9PFNA	104	50-200		9/25/23 12:16
MPFDoA	94.0	50-200		9/25/23 12:16

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Sample Extraction Data

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I2490-01 [N-07552]	B352296	263	1.00	09/18/23
23I2490-02 [N-07552 FB]	B352296	275	1.00	09/18/23

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B352296 - EPA 533										
Blank (B352296-BLK1)				Prepared: 09/18/23 Analyzed: 09/25/23						
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Surrogate: M2-4:2FTS	*31.4*		ng/L	38.0		82.8	50-200			
Surrogate: M2-8:2FTS	*40.4*		ng/L	38.8		104	50-200			
Surrogate: MPFBA	*40.5*		ng/L	40.5		100	50-200			
Surrogate: M3HFPO-DA	*38.8*		ng/L	40.5		95.9	50-200			
Surrogate: M6PFDA	*36.2*		ng/L	40.5		89.4	50-200			
Surrogate: M3PFBS	*35.9*		ng/L	37.7		95.2	50-200			
Surrogate: M7PFUnA	*38.3*		ng/L	40.5		94.6	50-200			
Surrogate: M2-6:2FTS	*69.5*		ng/L	38.5		181	50-200			
Surrogate: M5PFPeA	*39.6*		ng/L	40.5		97.8	50-200			
Surrogate: M5PFHxA	*38.2*		ng/L	40.5		94.3	50-200			
Surrogate: M3PFHxS	*35.2*		ng/L	38.4		91.9	50-200			
Surrogate: M4PFHpA	*38.3*		ng/L	40.5		94.7	50-200			
Surrogate: M8PFOA	*40.3*		ng/L	40.5		99.5	50-200			
Surrogate: M8PFOS	*37.4*		ng/L	38.8		96.3	50-200			
Surrogate: M9PFNA	*39.1*		ng/L	40.5		96.7	50-200			
Surrogate: MPFDoA	*36.3*		ng/L	40.5		89.8	50-200			
LCS (B352296-BS1)				Prepared: 09/18/23 Analyzed: 09/25/23						
Perfluorobutanoic acid (PFBA)	19.2	1.9	ng/L	18.6		103	70-130			
Perfluorobutanesulfonic acid (PFBS)	17.2	1.9	ng/L	16.4		104	70-130			
Perfluoropentanoic acid (PFPeA)	19.8	1.9	ng/L	18.6		106	70-130			
Perfluorohexanoic acid (PFHxA)	19.6	1.9	ng/L	18.6		106	70-130			
11Cl-PF3OUdS (F53B Major)	15.2	1.9	ng/L	17.5		86.8	70-130			
9Cl-PF3ONS (F53B Minor)	13.8	1.9	ng/L	17.3		79.9	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B352296 - EPA 533										
LCS (B352296-BS1)				Prepared: 09/18/23 Analyzed: 09/25/23						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	14.5	1.9	ng/L	17.5		83.1	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	16.4	1.9	ng/L	18.6		88.4	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	17.3	1.9	ng/L	17.8		96.9	70-130			
Perfluorodecanoic acid (PFDA)	18.1	1.9	ng/L	18.6		97.4	70-130			
Perfluorododecanoic acid (PFDoA)	18.2	1.9	ng/L	18.6		97.8	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	16.1	1.9	ng/L	16.5		97.6	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	19.3	1.9	ng/L	17.7		109	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	19.0	1.9	ng/L	17.4		109	70-130			
Perfluorohexanesulfonic acid (PFHxS)	17.3	1.9	ng/L	17.0		102	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	18.8	1.9	ng/L	18.6		101	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	18.2	1.9	ng/L	18.6		98.1	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	21.3	1.9	ng/L	17.6		121	70-130			
Perfluoropentanesulfonic acid (PFPeS)	18.7	1.9	ng/L	17.5		107	70-130			
Perfluoroundecanoic acid (PFUnA)	18.7	1.9	ng/L	18.6		101	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	20.5	1.9	ng/L	18.6		110	70-130			
Perfluoroheptanoic acid (PFHpA)	18.4	1.9	ng/L	18.6		98.8	70-130			
Perfluorooctanoic acid (PFOA)	20.1	1.9	ng/L	18.6		108	70-130			
Perfluorooctanesulfonic acid (PFOS)	16.3	1.9	ng/L	17.2		94.9	70-130			
Perfluorononanoic acid (PFNA)	19.7	1.9	ng/L	18.6		106	70-130			
Surrogate: M2-4:2FTS	*23.4*		ng/L	34.8		67.3	50-200			
Surrogate: M2-8:2FTS	*33.5*		ng/L	35.7		93.9	50-200			
Surrogate: MPFBA	*37.0*		ng/L	37.1		99.6	50-200			
Surrogate: M3HFPO-DA	*37.8*		ng/L	37.1		102	50-200			
Surrogate: M6PFDA	*32.3*		ng/L	37.1		87.0	50-200			
Surrogate: M3PFBS	*32.3*		ng/L	34.6		93.2	50-200			
Surrogate: M7PFUnA	*32.9*		ng/L	37.1		88.5	50-200			
Surrogate: M2-6:2FTS	*56.9*		ng/L	35.3		161	50-200			
Surrogate: M5PFPeA	*35.5*		ng/L	37.1		95.5	50-200			
Surrogate: M5PFHxA	*34.0*		ng/L	37.1		91.5	50-200			
Surrogate: M3PFHxS	*32.6*		ng/L	35.2		92.6	50-200			
Surrogate: M4PFHpA	*33.5*		ng/L	37.1		90.3	50-200			
Surrogate: M8PFOA	*34.1*		ng/L	37.1		91.7	50-200			
Surrogate: M8PFOS	*34.6*		ng/L	35.6		97.1	50-200			
Surrogate: M9PFNA	*33.5*		ng/L	37.1		90.1	50-200			
Surrogate: MPFDoA	*33.8*		ng/L	37.1		91.1	50-200			
LCS Dup (B352296-BSD1)				Prepared: 09/18/23 Analyzed: 09/25/23						
Perfluorobutanoic acid (PFBA)	20.4	2.0	ng/L	20.1		101	70-130	5.94	30	
Perfluorobutanesulfonic acid (PFBS)	18.5	2.0	ng/L	17.8		104	70-130	7.49	30	
Perfluoropentanoic acid (PFPeA)	20.6	2.0	ng/L	20.1		102	70-130	3.93	30	
Perfluorohexanoic acid (PFHxA)	21.3	2.0	ng/L	20.1		106	70-130	8.10	30	
11Cl-PF3OUdS (F53B Major)	15.9	2.0	ng/L	18.9		84.2	70-130	4.89	30	
9Cl-PF3ONS (F53B Minor)	15.0	2.0	ng/L	18.7		79.9	70-130	8.06	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	16.0	2.0	ng/L	18.9		84.3	70-130	9.39	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	17.3	2.0	ng/L	20.1		85.8	70-130	4.99	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	19.4	2.0	ng/L	19.3		100	70-130	11.6	30	
Perfluorodecanoic acid (PFDA)	20.5	2.0	ng/L	20.1		102	70-130	12.7	30	
Perfluorododecanoic acid (PFDoA)	19.4	2.0	ng/L	20.1		96.7	70-130	6.77	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B352296 - EPA 533										
LCS Dup (B352296-BSD1)				Prepared: 09/18/23 Analyzed: 09/25/23						
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	17.4	2.0	ng/L	17.9		97.2	70-130	7.58	30	
Perfluoroheptanesulfonic acid (PFHpS)	21.4	2.0	ng/L	19.2		111	70-130	10.1	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	19.6	2.0	ng/L	18.8		104	70-130	3.16	30	
Perfluorohexanesulfonic acid (PFHxS)	18.2	2.0	ng/L	18.4		99.0	70-130	5.22	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	19.9	2.0	ng/L	20.1		99.0	70-130	5.77	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	19.2	2.0	ng/L	20.1		95.6	70-130	5.37	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	22.4	2.0	ng/L	19.1		117	70-130	4.71	30	
Perfluoropentanesulfonic acid (PFPeS)	19.6	2.0	ng/L	18.9		104	70-130	4.94	30	
Perfluoroundecanoic acid (PFUnA)	21.2	2.0	ng/L	20.1		105	70-130	12.3	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	21.5	2.0	ng/L	20.1		107	70-130	4.70	30	
Perfluoroheptanoic acid (PFHpA)	19.0	2.0	ng/L	20.1		94.4	70-130	3.39	30	
Perfluorooctanoic acid (PFOA)	20.9	2.0	ng/L	20.1		104	70-130	3.89	30	
Perfluorooctanesulfonic acid (PFOS)	19.0	2.0	ng/L	18.6		102	70-130	15.5	30	
Perfluorononanoic acid (PFNA)	20.2	2.0	ng/L	20.1		101	70-130	2.54	30	
Surrogate: M2-4:2FTS	*31.2*		ng/L	37.7		82.7	50-200			
Surrogate: M2-8:2FTS	*39.5*		ng/L	38.6		102	50-200			
Surrogate: MPFBA	*39.3*		ng/L	40.2		97.7	50-200			
Surrogate: M3HFPO-DA	*40.1*		ng/L	40.2		99.8	50-200			
Surrogate: M6PFDA	*37.0*		ng/L	40.2		92.0	50-200			
Surrogate: M3PFBS	*34.7*		ng/L	37.5		92.4	50-200			
Surrogate: M7PFUnA	*37.4*		ng/L	40.2		93.0	50-200			
Surrogate: M2-6:2FTS	*60.5*		ng/L	38.3		158	50-200			
Surrogate: M5PFPeA	*38.5*		ng/L	40.2		95.6	50-200			
Surrogate: M5PFHxA	*37.0*		ng/L	40.2		91.9	50-200			
Surrogate: M3PFHxS	*34.4*		ng/L	38.1		90.3	50-200			
Surrogate: M4PFHpA	*37.7*		ng/L	40.2		93.6	50-200			
Surrogate: M8PFOA	*38.9*		ng/L	40.2		96.7	50-200			
Surrogate: M8PFOS	*36.0*		ng/L	38.6		93.3	50-200			
Surrogate: M9PFNA	*38.4*		ng/L	40.2		95.4	50-200			
Surrogate: MPFDoA	*36.1*		ng/L	40.2		89.7	50-200			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA,CT
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA,CT
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA,CT
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA,CT
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA,CT
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA,CT

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2024
ME	State of Maine	MA00100	06/9/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024

Internal Transfer Chain of Custody

23I2490 HF

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: [X] Yes ☐ No

Pace

Workorder: 70270817 Workorder Name: 1,4 DIO/PFAS 9/18
Owner Received Date: 9/18/2023 Results Requested By: 10/4/2023

Report To

Jennifer Aracri
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone 516-370-6016

Subcontract To

Pace New England
39 Spruce St.
East Longmeadow, MA 01028
Phone (413)525-2332

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other	PFAS 533	LAB USE ONLY
1	N-07552	PS	8/24/2023 10:05	70270817001	Drinking	1	X	
2	N-07552 FB	PS	8/24/2023 10:05	70270817002	Water	1	X	
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	9/19/23 15:00	[signature] (AAL)	9-19-23 15:20
2	[signature] MSMA (AAL)	9-19-23 1859	MSMA (AAL)	9/19 1840
3				

Comments: 25 Compound List

Cooler Temperature on Receipt ____ °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

[signature] AAL 9/19 22:00
[signature] AAL 9/20 00:15
Rec [signature] AAL 9/20/23 07:00
Rel 9/20/23 09:50

[signature] S.G 9/20/23 950

MWC

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Pace - NY

Project 70270817

MCP/RCP Required No

Deliverable Package Requirement No

Location NY

PWSID# (When Applicable) NA

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time GR 9/20/23 950

Back-Sheet By / Date / Time GR 9/20/23 1317

Temperature Method gun # 5

Temp < 6° C Actual Temperature 36

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☑
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: N/A ☑ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Sample		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	Soils Jars (Circle Amb/Clear)																				
8oz Amb/Clear																					
4oz Amb/Clear																					
2oz Amb/Clear																					
Unpreserved	Ambers 1 Liter																				
HCL																					
Sulfuric																					
Sulfuric	Ambers 250mL																				
Phosphoric																					
HCl																					
Unpreserved	Ambers 100mL																				
Unpreserved	Plastics 1 Liter																				
Sulfuric																					
Unpreserved	Plastics 500mL																				
Sulfuric																					
Unpreserved	Plastics 250mL																				
Trizma																					
Sulfuric																					
Nitric																					
NaOH																					
Ammonium Acetate		2	1																		
NaOH/Zinc																					
Unpreserved	VOA Vials																				
HCl																					
MeOH																					
D.I. Water																					
BiSulfate																					
Col/Bact	Other / Fill in																				

Qualtrax ID: 120836

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70265937001
Client Sample ID.: N-09809

Federal ID : 2912267
Collected : 08/07/2023 09:54 AM Point N-09809
Received : 08/07/2023 03:00 PM Location Stoneytown 10
Collected By CLIENT Flwr Hl

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 08/17/2023 11:53

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.74		1	ug/L	1	08/17/2023 6:51 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	116%		1	%REC		08/17/2023 6:51 PM	001 AG2R1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 09/01/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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Laboratory Results

Results for the samples and analytes requested

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575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70265937003
Client Sample ID.: GAC-09809

Federal ID : 2912267
Collected : 08/07/2023 10:07 AM Point GAC-09809
Received : 08/07/2023 03:00 PM Location Stoneytown 10
Collected By CLIENT GAC

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 08/17/2023 11:53

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.79		1	ug/L	1	08/17/2023 9:01 PM	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	124%		1	%REC		08/17/2023 9:01 PM	003 AG2R1/2

Analytical Method: EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3,L2	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,1-Dichloroethane	0.72		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Benzene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		08/10/2023 6:42 PM	003 VG9C1/2
Bromoform	<0.50		1	ug/L		08/10/2023 6:42 PM	003 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Chlorodifluoromethane	<0.50	N3,L2	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Chloroform	<0.50		1	ug/L		08/10/2023 6:42 PM	003 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2

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J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70265937003
Client Sample ID.: GAC-09809

Federal ID : 2912267
Collected : 08/07/2023 10:07 AM Point GAC-09809
Received : 08/07/2023 03:00 PM Location Stoneytown 10
Collected By CLIENT GAC

Dibromochloromethane	<0.50	1	ug/L		08/10/2023 6:42 PM	003 VG9C1/2
Dibromomethane	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Dichlorodifluoromethane	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Ethylbenzene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Hexachloro-1,3-butadiene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Isopropylbenzene (Cumene)	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Methyl-tert-butyl ether	<0.50	1	ug/L	10	08/10/2023 6:42 PM	003 VG9C1/2
Methylene Chloride	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Styrene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Tetrachloroethene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Toluene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50	1	ug/L	80	08/10/2023 6:42 PM	003 VG9C1/2
Trichloroethene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Trichlorofluoromethane	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Vinyl chloride	<0.50	1	ug/L	2	08/10/2023 6:42 PM	003 VG9C1/2
cis-1,2-Dichloroethene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
cis-1,3-Dichloropropene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
m&p-Xylene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
n-Butylbenzene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
n-Propylbenzene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
o-Xylene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
p-Isopropyltoluene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
sec-Butylbenzene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
tert-Butylbenzene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
trans-1,2-Dichloroethene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
trans-1,3-Dichloropropene	<0.50	1	ug/L	5	08/10/2023 6:42 PM	003 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	75%	1	%REC		08/10/2023 6:42 PM	003 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	86%	1	%REC		08/10/2023 6:42 PM	003 VG9C1/2

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J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
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Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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575 Broad Hollow Road, Melville, NY 11747
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www.pacelabs.com

WorkOrder :
70265937

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

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TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70265937

Additional Qualifiers

L2 - Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

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A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 28, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: 1,4 DIOXANE/PFAS 8/7
Client Job Number:
Project Number: 70265937
Laboratory Work Order Number: 23H1389

Enclosed are results of analyses for samples as received by the laboratory on August 9, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 8/28/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70265937

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23H1389

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1,4 DIOXANE/PFAS 8/7

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-09809	23H1389-01	Drinking Water		EPA 533	
N-09809 FB	23H1389-02	Field Blank		EPA 533	
GAC-09809	23H1389-03	Drinking Water		EPA 533	
GAC-09809 FB	23H1389-04	Field Blank		EPA 533	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 533

Qualifications:

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-8:2FTS

B349209-BSD1, B349820-BS1, S092317-CCV1, S092317-CCV2, S092317-CCV3

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4 DIOXANE/PFAS 8/7 Sample Description: Work Order: 23H1389

Date Received: 8/9/2023

Field Sample #: N-09809 Sampled: 8/7/2023 09:54

Sample ID: 23H1389-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	2.6	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluoropentanoic acid (PFPeA)	3.4	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluorohexanoic acid (PFHxA)	3.4	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluorohexanesulfonic acid (PFHxS)	3.4	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluorooctanoic acid (PFOA)	5.3	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 533	8/17/23	8/18/23 18:24	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	89.6	50-200		8/18/23 18:24
M2-8:2FTS	179	50-200		8/18/23 18:24
MPFBA	85.3	50-200		8/18/23 18:24
M3HFPO-DA	83.4	50-200		8/18/23 18:24
M6PFDA	68.0	50-200		8/18/23 18:24
M3PFBS	90.3	50-200		8/18/23 18:24
M7PFUnA	74.5	50-200		8/18/23 18:24
M2-6:2FTS	110	50-200		8/18/23 18:24
M5PFPeA	87.3	50-200		8/18/23 18:24
M5PFHxA	81.7	50-200		8/18/23 18:24
M3PFHxS	97.7	50-200		8/18/23 18:24
M4PFHpA	79.8	50-200		8/18/23 18:24
M8PFOA	74.3	50-200		8/18/23 18:24
M8PFOS	100	50-200		8/18/23 18:24
M9PFNA	70.1	50-200		8/18/23 18:24
MPFDoA	76.3	50-200		8/18/23 18:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4 DIOXANE/PFAS 8/7 Sample Description: Work Order: 23H1389

Date Received: 8/9/2023

Field Sample #: N-09809 FB Sampled: 8/7/2023 09:54

Sample ID: 23H1389-02

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	8/17/23	8/18/23 18:32	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	91.5	50-200		8/18/23 18:32
M2-8:2FTS	176	50-200		8/18/23 18:32
MPFBA	98.6	50-200		8/18/23 18:32
M3HFPO-DA	96.7	50-200		8/18/23 18:32
M6PFDA	110	50-200		8/18/23 18:32
M3PFBS	90.4	50-200		8/18/23 18:32
M7PFUnA	105	50-200		8/18/23 18:32
M2-6:2FTS	117	50-200		8/18/23 18:32
M5PFPeA	99.0	50-200		8/18/23 18:32
M5PFHxA	99.4	50-200		8/18/23 18:32
M3PFHxS	100	50-200		8/18/23 18:32
M4PFHpA	103	50-200		8/18/23 18:32
M8PFOA	101	50-200		8/18/23 18:32
M8PFOS	94.9	50-200		8/18/23 18:32
M9PFNA	108	50-200		8/18/23 18:32
MPFDoA	107	50-200		8/18/23 18:32

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4 DIOXANE/PFAS 8/7 Sample Description: Work Order: 23H1389

Date Received: 8/9/2023

Field Sample #: GAC-09809 Sampled: 8/7/2023 10:07

Sample ID: 23H1389-03

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	2.9	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluoropentanoic acid (PFPeA)	3.8	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluorohexanoic acid (PFHxA)	3.9	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluorohexanesulfonic acid (PFHxS)	2.5	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluoroheptanoic acid (PFHpA)	2.0	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluorooctanoic acid (PFOA)	4.6	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	8/23/23	8/24/23 16:24	RRB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	58.3	50-200		8/24/23 16:24
M2-8:2FTS	131	50-200		8/24/23 16:24
MPFBA	76.8	50-200		8/24/23 16:24
M3HFPO-DA	63.9	50-200		8/24/23 16:24
M6PFDA	71.8	50-200		8/24/23 16:24
M3PFBS	91.3	50-200		8/24/23 16:24
M7PFUnA	70.6	50-200		8/24/23 16:24
M2-6:2FTS	85.6	50-200		8/24/23 16:24
M5PFPeA	75.5	50-200		8/24/23 16:24
M5PFHxA	68.7	50-200		8/24/23 16:24
M3PFHxS	93.7	50-200		8/24/23 16:24
M4PFHpA	67.8	50-200		8/24/23 16:24
M8PFOA	68.1	50-200		8/24/23 16:24
M8PFOS	95.4	50-200		8/24/23 16:24
M9PFNA	66.0	50-200		8/24/23 16:24
MPFDoA	70.6	50-200		8/24/23 16:24

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Project Location: 1,4 DIOXANE/PFAS 8/7 Sample Description: Work Order: 23H1389

Date Received: 8/9/2023

Field Sample #: GAC-09809 FB Sampled: 8/7/2023 10:07

Sample ID: 23H1389-04

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluorohexanoic acid (PFHxA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluoroheptanoic acid (PFHpA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluorooctanoic acid (PFOA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/17/23	8/18/23 18:46	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	95.1	50-200		8/18/23 18:46
M2-8:2FTS	182	50-200		8/18/23 18:46
MPFBA	104	50-200		8/18/23 18:46
M3HFPO-DA	111	50-200		8/18/23 18:46
M6PFDA	111	50-200		8/18/23 18:46
M3PFBS	95.6	50-200		8/18/23 18:46
M7PFUnA	108	50-200		8/18/23 18:46
M2-6:2FTS	113	50-200		8/18/23 18:46
M5PFPeA	105	50-200		8/18/23 18:46
M5PFHxA	103	50-200		8/18/23 18:46
M3PFHxS	106	50-200		8/18/23 18:46
M4PFHpA	108	50-200		8/18/23 18:46
M8PFOA	110	50-200		8/18/23 18:46
M8PFOS	105	50-200		8/18/23 18:46
M9PFNA	111	50-200		8/18/23 18:46
MPFDoA	102	50-200		8/18/23 18:46

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Sample Extraction Data

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23H1389-01 [N-09809]	B349209	255	1.00	08/17/23
23H1389-02 [N-09809 FB]	B349209	259	1.00	08/17/23
23H1389-04 [GAC-09809 FB]	B349209	286	1.00	08/17/23

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23H1389-03RE1 [GAC-09809]	B349820	264	1.00	08/23/23

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B349209 - EPA 533										
Blank (B349209-BLK1)				Prepared: 08/17/23 Analyzed: 08/18/23						
Perfluorobutanoic acid (PFBA)	ND	1.9	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.9	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.9	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.9	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.9	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.9	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.9	ng/L							
Surrogate: M2-4:2FTS	*36.5*		ng/L	34.9		105	50-200			
Surrogate: M2-8:2FTS	*70.4*		ng/L	35.7		197	50-200			
Surrogate: MPFBA	*38.6*		ng/L	37.2		104	50-200			
Surrogate: M3HFPO-DA	*35.3*		ng/L	37.2		94.9	50-200			
Surrogate: M6PFDA	*41.3*		ng/L	37.2		111	50-200			
Surrogate: M3PFBS	*32.1*		ng/L	34.7		92.4	50-200			
Surrogate: M7PFUnA	*41.5*		ng/L	37.2		111	50-200			
Surrogate: M2-6:2FTS	*38.7*		ng/L	35.4		109	50-200			
Surrogate: M5PFPeA	*38.2*		ng/L	37.2		103	50-200			
Surrogate: M5PFHxA	*36.7*		ng/L	37.2		98.6	50-200			
Surrogate: M3PFHxS	*35.8*		ng/L	35.3		101	50-200			
Surrogate: M4PFHpA	*37.4*		ng/L	37.2		100	50-200			
Surrogate: M8PFOA	*37.6*		ng/L	37.2		101	50-200			
Surrogate: M8PFOS	*36.3*		ng/L	35.7		102	50-200			
Surrogate: M9PFNA	*40.3*		ng/L	37.2		108	50-200			
Surrogate: MPFDoA	*39.6*		ng/L	37.2		106	50-200			
LCS (B349209-BS1)				Prepared: 08/17/23 Analyzed: 08/18/23						
Perfluorobutanoic acid (PFBA)	1.69	1.9	ng/L	1.87		90.1	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.51	1.9	ng/L	1.66		91.0	50-150			
Perfluoropentanoic acid (PFPeA)	1.57	1.9	ng/L	1.87		84.0	50-150			
Perfluorohexanoic acid (PFHxA)	1.57	1.9	ng/L	1.87		83.9	50-150			
11Cl-PF3OUdS (F53B Major)	1.45	1.9	ng/L	1.76		82.1	50-150			
9Cl-PF3ONS (F53B Minor)	1.41	1.9	ng/L	1.74		80.8	50-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B349209 - EPA 533										
LCS (B349209-BS1)				Prepared: 08/17/23 Analyzed: 08/18/23						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.45	1.9	ng/L	1.76		82.5	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.52	1.9	ng/L	1.87		81.0	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.64	1.9	ng/L	1.80		91.5	50-150			
Perfluorodecanoic acid (PFDA)	1.63	1.9	ng/L	1.87		87.3	50-150			
Perfluorododecanoic acid (PFDoA)	1.56	1.9	ng/L	1.87		83.2	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.62	1.9	ng/L	1.67		97.2	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.68	1.9	ng/L	1.79		94.0	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.43	1.9	ng/L	1.75		81.8	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.46	1.9	ng/L	1.71		85.3	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.52	1.9	ng/L	1.87		81.2	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.46	1.9	ng/L	1.87		77.8	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.40	1.9	ng/L	1.78		78.7	50-150			
Perfluoropentanesulfonic acid (PFPeS)	1.53	1.9	ng/L	1.76		87.1	50-150			
Perfluoroundecanoic acid (PFUnA)	1.54	1.9	ng/L	1.87		82.2	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.66	1.9	ng/L	1.87		88.5	50-150			
Perfluoroheptanoic acid (PFHpA)	1.58	1.9	ng/L	1.87		84.5	50-150			
Perfluorooctanoic acid (PFOA)	1.67	1.9	ng/L	1.87		89.4	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.47	1.9	ng/L	1.73		84.8	50-150			
Perfluorononanoic acid (PFNA)	1.44	1.9	ng/L	1.87		77.0	50-150			
Surrogate: M2-4:2FTS	*34.8*		ng/L	35.1		99.1	50-200			
Surrogate: M2-8:2FTS	*66.6*		ng/L	35.9		185	50-200			
Surrogate: MPFBA	*37.7*		ng/L	37.4		101	50-200			
Surrogate: M3HFPO-DA	*33.3*		ng/L	37.4		88.9	50-200			
Surrogate: M6PFDA	*39.9*		ng/L	37.4		107	50-200			
Surrogate: M3PFBS	*30.7*		ng/L	34.9		88.1	50-200			
Surrogate: M7PFUnA	*38.5*		ng/L	37.4		103	50-200			
Surrogate: M2-6:2FTS	*38.3*		ng/L	35.6		108	50-200			
Surrogate: M5PFPeA	*37.5*		ng/L	37.4		100	50-200			
Surrogate: M5PFHxA	*35.6*		ng/L	37.4		95.2	50-200			
Surrogate: M3PFHxS	*33.5*		ng/L	35.5		94.5	50-200			
Surrogate: M4PFHpA	*36.2*		ng/L	37.4		96.8	50-200			
Surrogate: M8PFOA	*36.2*		ng/L	37.4		96.8	50-200			
Surrogate: M8PFOS	*33.4*		ng/L	35.9		93.2	50-200			
Surrogate: M9PFNA	*37.0*		ng/L	37.4		98.7	50-200			
Surrogate: MPFDoA	*36.3*		ng/L	37.4		96.8	50-200			
LCS Dup (B349209-BSD1)				Prepared: 08/17/23 Analyzed: 08/18/23						
Perfluorobutanoic acid (PFBA)	1.78	1.8	ng/L	1.84		96.8	50-150	5.18	50	
Perfluorobutanesulfonic acid (PFBS)	1.48	1.8	ng/L	1.62		91.1	50-150	1.81	50	
Perfluoropentanoic acid (PFPeA)	1.68	1.8	ng/L	1.84		91.6	50-150	6.66	50	
Perfluorohexanoic acid (PFHxA)	1.61	1.8	ng/L	1.84		87.6	50-150	2.40	50	
11Cl-PF3OUdS (F53B Major)	1.47	1.8	ng/L	1.73		85.3	50-150	1.77	50	
9Cl-PF3ONS (F53B Minor)	1.20	1.8	ng/L	1.71		70.0	50-150	16.3	50	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.49	1.8	ng/L	1.73		86.4	50-150	2.72	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.62	1.8	ng/L	1.84		88.3	50-150	6.70	50	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.48	1.8	ng/L	1.76		83.8	50-150	10.7	50	
Perfluorodecanoic acid (PFDA)	1.79	1.8	ng/L	1.84		97.6	50-150	9.12	50	
Perfluorododecanoic acid (PFDoA)	1.61	1.8	ng/L	1.84		87.8	50-150	3.38	50	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B349209 - EPA 533											
LCS Dup (B349209-BSD1)				Prepared: 08/17/23 Analyzed: 08/18/23							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.67	1.8	ng/L	1.63		102		50-150	2.85	50	
Perfluoroheptanesulfonic acid (PFHpS)	1.40	1.8	ng/L	1.75		79.7		50-150	18.4	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.53	1.8	ng/L	1.72		89.2		50-150	6.61	50	
Perfluorohexanesulfonic acid (PFHxS)	1.59	1.8	ng/L	1.68		94.8		50-150	8.54	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	1.60	1.8	ng/L	1.84		86.9		50-150	4.85	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.53	1.8	ng/L	1.84		83.5		50-150	5.08	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.55	1.8	ng/L	1.74		88.6		50-150	9.89	50	
Perfluoropentanesulfonic acid (PFPeS)	1.60	1.8	ng/L	1.73		93.0		50-150	4.53	50	
Perfluoroundecanoic acid (PFUnA)	1.70	1.8	ng/L	1.84		92.8		50-150	10.1	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.74	1.8	ng/L	1.84		94.8		50-150	4.94	50	
Perfluoroheptanoic acid (PFHpA)	1.75	1.8	ng/L	1.84		95.6		50-150	10.4	50	
Perfluorooctanoic acid (PFOA)	1.67	1.8	ng/L	1.84		90.8		50-150	0.401	50	
Perfluorooctanesulfonic acid (PFOS)	1.44	1.8	ng/L	1.70		84.8		50-150	1.95	50	
Perfluorononanoic acid (PFNA)	1.56	1.8	ng/L	1.84		85.1		50-150	8.01	50	
Surrogate: M2-4:2FTS	*38.6*		ng/L	34.4		112		50-200			
Surrogate: M2-8:2FTS	*83.4*		ng/L	35.2		**237**	*	50-200			S-29
Surrogate: MPFBA	*40.9*		ng/L	36.7		111		50-200			
Surrogate: M3HFPO-DA	*39.6*		ng/L	36.7		108		50-200			
Surrogate: M6PFDA	*44.2*		ng/L	36.7		120		50-200			
Surrogate: M3PFBS	*34.3*		ng/L	34.2		100		50-200			
Surrogate: M7PFUnA	*43.3*		ng/L	36.7		118		50-200			
Surrogate: M2-6:2FTS	*46.8*		ng/L	34.9		134		50-200			
Surrogate: M5PFPeA	*40.3*		ng/L	36.7		110		50-200			
Surrogate: M5PFHxA	*41.9*		ng/L	36.7		114		50-200			
Surrogate: M3PFHxS	*38.6*		ng/L	34.8		111		50-200			
Surrogate: M4PFHpA	*42.9*		ng/L	36.7		117		50-200			
Surrogate: M8PFOA	*44.6*		ng/L	36.7		121		50-200			
Surrogate: M8PFOS	*40.8*		ng/L	35.2		116		50-200			
Surrogate: M9PFNA	*44.0*		ng/L	36.7		120		50-200			
Surrogate: MPFDoA	*42.2*		ng/L	36.7		115		50-200			
Batch B349820 - EPA 533											
Blank (B349820-BLK1)				Prepared: 08/23/23 Analyzed: 08/24/23							
Perfluorobutanoic acid (PFBA)	ND	1.8	ng/L								
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	ng/L								
Perfluoropentanoic acid (PFPeA)	ND	1.8	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	1.8	ng/L								
11Cl-PF3OUdS (F53B Major)	ND	1.8	ng/L								
9Cl-PF3ONS (F53B Minor)	ND	1.8	ng/L								
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	ng/L								
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	ng/L								
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	ng/L								
Perfluorodecanoic acid (PFDA)	ND	1.8	ng/L								
Perfluorododecanoic acid (PFDoA)	ND	1.8	ng/L								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L								
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	ng/L								
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	ng/L								

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B349820 - EPA 533										
Blank (B349820-BLK1)				Prepared: 08/23/23 Analyzed: 08/24/23						
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8	ng/L							
Surrogate: M2-4:2FTS	*34.2*		ng/L	34.5		99.2	50-200			
Surrogate: M2-8:2FTS	*46.0*		ng/L	35.3		130	50-200			
Surrogate: MPFBA	*37.7*		ng/L	36.8		102	50-200			
Surrogate: M3HFPO-DA	*29.0*		ng/L	36.8		78.9	50-200			
Surrogate: M6PFDA	*35.7*		ng/L	36.8		97.2	50-200			
Surrogate: M3PFBS	*33.1*		ng/L	34.3		96.5	50-200			
Surrogate: M7PFUnA	*36.1*		ng/L	36.8		98.3	50-200			
Surrogate: M2-6:2FTS	*40.8*		ng/L	35.0		117	50-200			
Surrogate: M5PFPeA	*37.2*		ng/L	36.8		101	50-200			
Surrogate: M5PFHxA	*35.0*		ng/L	36.8		95.3	50-200			
Surrogate: M3PFHxS	*35.5*		ng/L	34.8		102	50-200			
Surrogate: M4PFHpA	*35.5*		ng/L	36.8		96.6	50-200			
Surrogate: M8PFOA	*37.0*		ng/L	36.8		101	50-200			
Surrogate: M8PFOS	*35.2*		ng/L	35.3		100	50-200			
Surrogate: M9PFNA	*35.4*		ng/L	36.8		96.4	50-200			
Surrogate: MPFDoA	*36.5*		ng/L	36.8		99.3	50-200			
LCS (B349820-BS1)				Prepared: 08/23/23 Analyzed: 08/24/23						
Perfluorobutanoic acid (PFBA)	10.3	1.9	ng/L	9.46		109	70-130			
Perfluorobutanesulfonic acid (PFBS)	8.97	1.9	ng/L	8.37		107	70-130			
Perfluoropentanoic acid (PFPeA)	10.0	1.9	ng/L	9.46		106	70-130			
Perfluorohexanoic acid (PFHxA)	10.2	1.9	ng/L	9.46		108	70-130			
11Cl-PF3OUdS (F53B Major)	7.72	1.9	ng/L	8.91		86.6	70-130			
9Cl-PF3ONS (F53B Minor)	7.93	1.9	ng/L	8.82		89.9	70-130			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.96	1.9	ng/L	8.91		101	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.60	1.9	ng/L	9.46		101	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	9.88	1.9	ng/L	9.08		109	70-130			
Perfluorodecanoic acid (PFDA)	10.0	1.9	ng/L	9.46		106	70-130			
Perfluorododecanoic acid (PFDoA)	10.3	1.9	ng/L	9.46		109	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	9.42	1.9	ng/L	8.42		112	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	8.78	1.9	ng/L	9.04		97.2	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	9.35	1.9	ng/L	8.85		106	70-130			
Perfluorohexanesulfonic acid (PFHxS)	9.12	1.9	ng/L	8.66		105	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	9.08	1.9	ng/L	9.46		96.0	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	8.99	1.9	ng/L	9.46		95.1	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.76	1.9	ng/L	8.99		97.4	70-130			
Perfluoropentanesulfonic acid (PFPeS)	9.41	1.9	ng/L	8.89		106	70-130			
Perfluoroundecanoic acid (PFUnA)	10.3	1.9	ng/L	9.46		108	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	10.2	1.9	ng/L	9.46		108	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B349820 - EPA 533											
LCS (B349820-BS1)				Prepared: 08/23/23 Analyzed: 08/24/23							
Perfluoroheptanoic acid (PFHpA)	10.1	1.9	ng/L	9.46		106		70-130			
Perfluorooctanoic acid (PFOA)	10.6	1.9	ng/L	9.46		112		70-130			
Perfluorooctanesulfonic acid (PFOS)	8.96	1.9	ng/L	8.75		102		70-130			
Perfluorononanoic acid (PFNA)	10.5	1.9	ng/L	9.46		111		70-130			
Surrogate: M2-4:2FTS	*37.6*		ng/L	35.5		106		50-200			
Surrogate: M2-8:2FTS	*85.6*		ng/L	36.3		**235**	*	50-200			S-29
Surrogate: MPFBA	*40.7*		ng/L	37.8		108		50-200			
Surrogate: M3HFPO-DA	*33.6*		ng/L	37.8		88.7		50-200			
Surrogate: M6PFDA	*41.9*		ng/L	37.8		111		50-200			
Surrogate: M3PFBS	*36.0*		ng/L	35.3		102		50-200			
Surrogate: M7PFUnA	*42.1*		ng/L	37.8		111		50-200			
Surrogate: M2-6:2FTS	*45.7*		ng/L	36.0		127		50-200			
Surrogate: M5PFPeA	*41.4*		ng/L	37.8		109		50-200			
Surrogate: M5PFHxA	*38.5*		ng/L	37.8		102		50-200			
Surrogate: M3PFHxS	*37.1*		ng/L	35.9		103		50-200			
Surrogate: M4PFHpA	*40.2*		ng/L	37.8		106		50-200			
Surrogate: M8PFOA	*40.8*		ng/L	37.8		108		50-200			
Surrogate: M8PFOS	*39.5*		ng/L	36.3		109		50-200			
Surrogate: M9PFNA	*39.8*		ng/L	37.8		105		50-200			
Surrogate: MPFDoA	*40.9*		ng/L	37.8		108		50-200			
LCS Dup (B349820-BSD1)				Prepared: 08/23/23 Analyzed: 08/24/23							
Perfluorobutanoic acid (PFBA)	9.58	1.9	ng/L	9.30		103		70-130	6.95	30	
Perfluorobutanesulfonic acid (PFBS)	8.40	1.9	ng/L	8.23		102		70-130	6.57	30	
Perfluoropentanoic acid (PFPeA)	9.42	1.9	ng/L	9.30		101		70-130	6.08	30	
Perfluorohexanoic acid (PFHxA)	9.58	1.9	ng/L	9.30		103		70-130	6.50	30	
11Cl-PF3OUdS (F53B Major)	8.17	1.9	ng/L	8.76		93.2		70-130	5.67	30	
9Cl-PF3ONS (F53B Minor)	8.12	1.9	ng/L	8.67		93.7		70-130	2.44	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.72	1.9	ng/L	8.76		99.6		70-130	2.70	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.88	1.9	ng/L	9.30		84.7		70-130	19.7	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	8.96	1.9	ng/L	8.93		100		70-130	9.76	30	
Perfluorodecanoic acid (PFDA)	9.53	1.9	ng/L	9.30		102		70-130	5.00	30	
Perfluorododecanoic acid (PFDoA)	9.18	1.9	ng/L	9.30		98.7		70-130	11.2	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	8.95	1.9	ng/L	8.28		108		70-130	5.14	30	
Perfluoroheptanesulfonic acid (PFHpS)	8.76	1.9	ng/L	8.88		98.6		70-130	0.218	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.60	1.9	ng/L	8.70		98.9		70-130	8.30	30	
Perfluorohexanesulfonic acid (PFHxS)	8.49	1.9	ng/L	8.51		99.8		70-130	7.09	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	8.45	1.9	ng/L	9.30		90.8		70-130	7.26	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	8.51	1.9	ng/L	9.30		91.5		70-130	5.56	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.21	1.9	ng/L	8.84		92.9		70-130	6.50	30	
Perfluoropentanesulfonic acid (PFPeS)	8.64	1.9	ng/L	8.74		98.8		70-130	8.48	30	
Perfluoroundecanoic acid (PFUnA)	9.61	1.9	ng/L	9.30		103		70-130	6.51	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	9.63	1.9	ng/L	9.30		103		70-130	5.88	30	
Perfluoroheptanoic acid (PFHpA)	9.77	1.9	ng/L	9.30		105		70-130	3.07	30	
Perfluorooctanoic acid (PFOA)	10.2	1.9	ng/L	9.30		110		70-130	3.70	30	
Perfluorooctanesulfonic acid (PFOS)	8.66	1.9	ng/L	8.60		101		70-130	3.34	30	
Perfluorononanoic acid (PFNA)	10.1	1.9	ng/L	9.30		108		70-130	4.59	30	
Surrogate: M2-4:2FTS	*39.1*		ng/L	34.9		112		50-200			
Surrogate: M2-8:2FTS	*64.0*		ng/L	35.7		179		50-200			
Surrogate: MPFBA	*41.2*		ng/L	37.2		111		50-200			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B349820 - EPA 533										
LCS Dup (B349820-BSD1)				Prepared: 08/23/23 Analyzed: 08/24/23						
Surrogate: M3HFPO-DA	*31.9*		ng/L	37.2		85.8	50-200			
Surrogate: M6PFDA	*39.3*		ng/L	37.2		106	50-200			
Surrogate: M3PFBS	*37.2*		ng/L	34.7		107	50-200			
Surrogate: M7PFUnA	*41.0*		ng/L	37.2		110	50-200			
Surrogate: M2-6:2FTS	*46.6*		ng/L	35.4		132	50-200			
Surrogate: M5PFPeA	*41.2*		ng/L	37.2		111	50-200			
Surrogate: M5PFHxA	*37.8*		ng/L	37.2		102	50-200			
Surrogate: M3PFHxS	*38.9*		ng/L	35.3		110	50-200			
Surrogate: M4PFHpA	*38.5*		ng/L	37.2		104	50-200			
Surrogate: M8PFOA	*39.6*		ng/L	37.2		106	50-200			
Surrogate: M8PFOS	*38.4*		ng/L	35.7		107	50-200			
Surrogate: M9PFNA	*38.4*		ng/L	37.2		103	50-200			
Surrogate: MPFDoA	*40.6*		ng/L	37.2		109	50-200			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-29	Extracted Internal Standard is outside of control limits.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA,CT
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA,CT
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA,CT
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA,CT
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA,CT
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA,CT

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2024
ME	State of Maine	MA00100	06/9/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024

23H1509
KAF

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: [X] Yes ☐ No
Owner Received Date: 8/7/2023
Results Requested By: 8/21/2023

Pace

Workorder: 70265937 Workorder Name: 1,4 DIOXANE/PFAS 8/7

Report To

Jennifer Aracri
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone (631)694-3040

Subcontract To

Pace New England
39 Spruce St.
East Longmeadow, MA 01028
Phone (413)525-2332

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other	PFAS by 533	LAB USE ONLY
1	N-09809	PS	8/7/2023 09:54	70265937001	Drinking	1	X	
2	N-09809 FB	PS	8/7/2023 09:54	70265937002	Drinking	1	X	
3	GAC-09809	PS	8/7/2023 10:07	70265937003	Drinking	1	X	
4	GAC-09809 FB	PS	8/7/2023 10:07	70265937004	Drinking	1	X	

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	8/8/23 1800	MSMA(AN)	8/8 1730
2	MSMA(AN)	8/8 2000	Anthony Green	AUG 08 2023 2100
3	Anthony Green	8/9/23 0100	[signature]	8/9/23 0100

Comments

25 Compound List

Cooler Temperature on Receipt _____ °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

[signature] 8/9/23 0330 [signature] 8/9/23 07:00 AAL
[signature] AAL 8/9/23 09:15
[signature] 8-9-23 0915 3.2°C

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Pace- Melville

Project PFAS 533 - JA

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location 1,4 DIOXANE / PFAS 8/7

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time AAM / 8-9-23 / 0915

Back-Sheet By / Date / Time AAM / 8-9-23 / 0945

Temperature Method Temp. Gun # 5

Temp ✓ ≤6° C Actual Temperature 3.2°C

Rush Samples: Yes / No Notify

Short Hold: Yes / No Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☐
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Page 1 of 2

DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

Sample	Soils Jars (Circle Amb/Clear)				Ambers							Plastics											VOA Vials					Other / Fill in					
					1 Liter			250mL			100mL	1 Liter		500mL		250mL																	
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact					
1																					2												
2																					1												
3																					2												
4																					1												
5																																	
6																																	
7																																	
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19																																	
20																																	

Page 2 of 2

Qualtrax ID: 120836

WO#: 70265937

70265937

Rel: [illegible] 8-7-23 1500

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 8/7/23

Collected By: Richard Zimbardi

Accepted By: [illegible] 8-7-23 1245

Cooler Temp: 4.5 °C

☐ WELL OFF LINE

☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Paul Prignano, Superintendent

Address: Port Washington Water District, 38 Sandy Hollow Road, P.O. Box 432, Port Washington, NY 11050

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
8/7/23 9:54	GW	Stonytown 10 N-09809	RW	O	RO			Dioxane, 533 w/Field Blank	W1, W2
10:07	GW	Stonytown 10 GAC-09809	TW	GAC	RO			Doc, Dioxane, 533 w Field Blank	W3, W4

Remarks:

Client: PWW

Profile #: 5141

Work ID: 114/535 8/7

COC Page 1 of 1

☒ Use Point Number Spreadsheet

☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP35	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
1																				2																2																
2																																				1																
3																				2																2																
4																																				1																
5																																																					
6																																																					
7																																																					
8																																																					
9																																																					
10																																																					
11																																																					

Container Codes

Glass			
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass
		AG1A	(NH4Cl)
WG9O	8oz clear soil jar		
WG4O	4oz clear soil jar		

Plastic		Misc.	
BP4U	125mL unpreserved plastic	SP5T	120mL Coliform Na Thio
BP3U	250mL unpreserved plastic	R	Terracore Kit
BP2U	500mL unpreserved plastic	WG2U	2oz Unpreserved Jar
BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
BP3C	NaOH 250mL bottle	GN	General
BP3T	250mL Trizma	WP	Wipe
BP35	250mL Ammonium Acetate		
BP3R	250mL NH4SO4-NH4OH		
BP1Z	1L NaOH, Zn Acetate		
BP1N	1L HNO3 plastic		
BP1B	Na Thiosulfate Amber Bottle		

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OiL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosultate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials y

Additional Comments

Log 002, 004 as FB.

WO#: 70265937

PM: JSA Due Date: 08/17/23

CLIENT: PWW

WO#: 70265937
PM: JSA **Due Date: 08/17/23**
CLIENT: PWW

Client Name: PWD Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No Temperature Blank Present: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other Type of Ice: ☑ Blue None

Thermometer Used: TH196 Correction Factor: -0.4 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 4.5 Cooler Temperature Corrected(°C): 4.1 Date/Time 5035A kits placed in freezer TK 8-7-23
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No		12.
Matrix:	SL	WT	OIL OTHER	

Date and Initials of person checking preservation:

All containers needing preservation have been pH paper Lot #	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☑N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70269985001
Client Sample ID.: N-02052

Federal ID : 2912267
Collected : 09/11/2023 09:04 AM Point N-02052
Received : 09/11/2023 02:30 PM Location Hewlett 4
Collected By CLIENT Flwr Hl

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 09/13/2023 10:13

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.96		1	ug/L	1	09/13/2023 11:13	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	95%		1	%REC		09/13/2023 11:13	001 AG2R1/2

Analytical Method: EPA 524.3

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,2-Dibromo-3-chloropropane	<0.010		1	ug/L	0.2	09/12/2023 2:16 AM	001 DG9A1/2
1,2-Dibromoethane (EDB)	<0.010		1	ug/L	0.05	09/12/2023 2:16 AM	001 DG9A1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	99%		1	%REC		09/12/2023 2:16 AM	001 DG9A1/2
Surr: 4-Bromofluorobenzene (S)	97%		1	%REC		09/12/2023 2:16 AM	001 DG9A1/2
Surr: tert Butyl Methyl-d3 Ether (S)	93%		1	%REC		09/12/2023 2:16 AM	001 DG9A1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 10/01/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70269985003
Client Sample ID.: GAC-02052

Federal ID : 2912267
Collected : 09/11/2023 09:38 AM Point GAC-02052
Received : 09/11/2023 02:30 PM Location Hewlett 4 GAC
Collected By CLIENT

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 09/13/2023 10:13

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.57		1	ug/L	1	09/13/2023 11:45	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	85%		1	%REC		09/13/2023 11:45	003 AG2R1/2

Analytical Method: EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Benzene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		09/12/2023 10:17	003 VG9C1/2
Bromoform	<0.50		1	ug/L		09/12/2023 10:17	003 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Chlorodifluoromethane	<0.50	N3	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Chloroform	<0.50		1	ug/L		09/12/2023 10:17	003 VG9C1/2
Chloromethane	<0.50	L1	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70269985003
Client Sample ID.: GAC-02052

Federal ID : 2912267
Collected : 09/11/2023 09:38 AM Point GAC-02052
Received : 09/11/2023 02:30 PM Location Hewlett 4 GAC
Collected By CLIENT

Dibromochloromethane	<0.50	1	ug/L		09/12/2023 10:17	003 VG9C1/2
Dibromomethane	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Dichlorodifluoromethane	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Ethylbenzene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Hexachloro-1,3-butadiene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Isopropylbenzene (Cumene)	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Methyl-tert-butyl ether	<0.50	1	ug/L	10	09/12/2023 10:17	003 VG9C1/2
Methylene Chloride	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Styrene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Tetrachloroethene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Toluene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50	1	ug/L	80	09/12/2023 10:17	003 VG9C1/2
Trichloroethene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Trichlorofluoromethane	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Vinyl chloride	<0.50	1	ug/L	2	09/12/2023 10:17	003 VG9C1/2
cis-1,2-Dichloroethene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
cis-1,3-Dichloropropene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
m&p-Xylene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
n-Butylbenzene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
n-Propylbenzene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
o-Xylene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
p-Isopropyltoluene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
sec-Butylbenzene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
tert-Butylbenzene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
trans-1,2-Dichloroethene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
trans-1,3-Dichloropropene	<0.50	1	ug/L	5	09/12/2023 10:17	003 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	90%	1	%REC		09/12/2023 10:17	003 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	92%	1	%REC		09/12/2023 10:17	003 VG9C1/2

Analytical Method:EPA 524.3

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,2-Dibromo-3-chloropropane	<0.010		1	ug/L	0.2	09/12/2023 2:41 AM	003 DG9A1/2
1,2-Dibromoethane (EDB)	<0.010		1	ug/L	0.05	09/12/2023 2:41 AM	003 DG9A1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	100%		1	%REC		09/12/2023 2:41 AM	003 DG9A1/2
Surr: 4-Bromofluorobenzene (S)	97%		1	%REC		09/12/2023 2:41 AM	003 DG9A1/2
Surr: tert Butyl Methyl-d3 Ether (S)	95%		1	%REC		09/12/2023 2:41 AM	003 DG9A1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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www.pacelabs.com

WorkOrder :
70269985

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70269985

Additional Qualifiers

L1 - Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

WO#: 70269985

70269985

Relinquished 9/11-23 1430

Sample Request Form
PUBLIC WATER SUPPLIER

Y 11747
(631) 694-3040 Fax: (631) 420-8436

Date: 9/11/23

Collected By: Richard Zimbardi

Accepted By: 9-11-23 1210

Cooler Temp: 4.3 °C

☐ WELL OFF LINE

☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info: Paul Prignano, Superintendent

Name or Code: Port Washington Water District

Address: 38 Sandy Hollow Road
P.O. Box 432
Port Washington, NY 11050

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
9/11/23 9:04	GW	Hewlett #4 N-02052	RW	O	RO			Dioxane, 533 w Field Blank 524.3, SOC	001 + 002
9:38	GW	Hewlett #4 GAC-02052	TW	GAC	RO			Dioxane, 533 w Field Blank 524.3, POC	003 + 004

Remarks:

WO#: 70269985
PM: JSA **Due Date: 09/22/23**
CLIENT: PWW

Client Name: PWWD Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No Temperature Blank Present: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: ☑ Wet Blue None

Thermometer Used: TH197 Correction Factor: -0.4
Cooler Temperature(°C): 4.3 Cooler Temperature Corrected(°C): 3.9 ☑ Samples on ice, cooling process has begun
Date/Time 5035A kits placed in freezer: TK 9-11-23
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: MW 9/11/23

				COMMENTS:
Chain of Custody Present	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☑Yes	☐No		12.

Date and Initials of person checking preservation: MW 9/11/23

All containers needing preservation have been pH paper Lot #	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	☑N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 28, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: 1,4 DIOXANE/533 9/11
Client Job Number:
Project Number: 70269985
Laboratory Work Order Number: 23I1646

Enclosed are results of analyses for samples as received by the laboratory on September 14, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 9/28/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70269985

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23I1646

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1,4 DIOXANE/533 9/11

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-02052	23I1646-01	Drinking Water		EPA 533	
N-02052 FB	23I1646-02	Field Blank		EPA 533	
GAC-02052	23I1646-03	Drinking Water		EPA 533	
GAC-02052 FB	23I1646-04	Field Blank		EPA 533	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 533

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

6:2 Fluorotelomersulfonic acid (6:2FTS A)
B352012-BS1

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-4:2FTS
S093996-CCV2

M2-6:2FTS
S093996-CCV2

M2-8:2FTS
S093996-CCV2

M3HFPO-DA
S093996-CCV1, S093996-CCV2, S093996-CCV3

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4 DIOXANE/533 9/11 Sample Description: Work Order: 23I1646

Date Received: 9/14/2023

Field Sample #: N-02052 Sampled: 9/11/2023 09:04

Sample ID: 23I1646-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	2.4	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluoropentanoic acid (PFPeA)	5.2	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluorohexanoic acid (PFHxA)	4.7	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluorohexanesulfonic acid (PFHxS)	3.4	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluoroheptanoic acid (PFHpA)	2.9	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluorooctanoic acid (PFOA)	6.2	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluorooctanesulfonic acid (PFOS)	5.4	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2
Perfluorononanoic acid (PFNA)	33	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:25	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	56.6	50-200		9/26/23 20:25
M2-8:2FTS	114	50-200		9/26/23 20:25
MPFBA	92.6	50-200		9/26/23 20:25
M3HFPO-DA	131	50-200		9/26/23 20:25
M6PFDA	88.8	50-200		9/26/23 20:25
M3PFBS	105	50-200		9/26/23 20:25
M7PFUnA	97.3	50-200		9/26/23 20:25
M2-6:2FTS	95.0	50-200		9/26/23 20:25
M5PFPeA	89.8	50-200		9/26/23 20:25
M5PFHxA	85.8	50-200		9/26/23 20:25
M3PFHxS	108	50-200		9/26/23 20:25
M4PFHpA	89.5	50-200		9/26/23 20:25
M8PFOA	95.4	50-200		9/26/23 20:25
M8PFOS	111	50-200		9/26/23 20:25
M9PFNA	92.8	50-200		9/26/23 20:25
MPFDoA	93.0	50-200		9/26/23 20:25

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Project Location: 1,4 DIOXANE/533 9/11 Sample Description: Work Order: 23I1646

Date Received: 9/14/2023

Field Sample #: N-02052 FB Sampled: 9/11/2023 09:04

Sample ID: 23I1646-02

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:33	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	63.1	50-200		9/26/23 20:33
M2-8:2FTS	138	50-200		9/26/23 20:33
MPFBA	98.3	50-200		9/26/23 20:33
M3HFPO-DA	160	50-200		9/26/23 20:33
M6PFDA	93.7	50-200		9/26/23 20:33
M3PFBS	106	50-200		9/26/23 20:33
M7PFUnA	90.4	50-200		9/26/23 20:33
M2-6:2FTS	113	50-200		9/26/23 20:33
M5PFPeA	95.1	50-200		9/26/23 20:33
M5PFHxA	89.9	50-200		9/26/23 20:33
M3PFHxS	107	50-200		9/26/23 20:33
M4PFHpA	94.9	50-200		9/26/23 20:33
M8PFOA	100	50-200		9/26/23 20:33
M8PFOS	106	50-200		9/26/23 20:33
M9PFNA	94.6	50-200		9/26/23 20:33
MPFDoA	89.8	50-200		9/26/23 20:33

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4 DIOXANE/533 9/11 Sample Description: Work Order: 23I1646

Date Received: 9/14/2023

Field Sample #: GAC-02052 Sampled: 9/11/2023 09:38

Sample ID: 23I1646-03

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	9/22/23	9/26/23 20:41	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	50.4	50-200		9/26/23 20:41
M2-8:2FTS	140	50-200		9/26/23 20:41
MPFBA	74.6	50-200		9/26/23 20:41
M3HFPO-DA	113	50-200		9/26/23 20:41
M6PFDA	84.1	50-200		9/26/23 20:41
M3PFBS	94.1	50-200		9/26/23 20:41
M7PFUnA	88.9	50-200		9/26/23 20:41
M2-6:2FTS	78.9	50-200		9/26/23 20:41
M5PFPeA	70.6	50-200		9/26/23 20:41
M5PFHxA	68.6	50-200		9/26/23 20:41
M3PFHxS	96.7	50-200		9/26/23 20:41
M4PFHpA	68.9	50-200		9/26/23 20:41
M8PFOA	79.6	50-200		9/26/23 20:41
M8PFOS	92.8	50-200		9/26/23 20:41
M9PFNA	76.8	50-200		9/26/23 20:41
MPFDoA	86.2	50-200		9/26/23 20:41

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4 DIOXANE/533 9/11 Sample Description: Work Order: 23I1646

Date Received: 9/14/2023

Field Sample #: GAC-02052 FB Sampled: 9/11/2023 09:38

Sample ID: 23I1646-04

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	9/22/23	9/26/23 20:49	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	68.8	50-200		9/26/23 20:49
M2-8:2FTS	188	50-200		9/26/23 20:49
MPFBA	102	50-200		9/26/23 20:49
M3HFPO-DA	157	50-200		9/26/23 20:49
M6PFDA	93.5	50-200		9/26/23 20:49
M3PFBS	106	50-200		9/26/23 20:49
M7PFUnA	94.5	50-200		9/26/23 20:49
M2-6:2FTS	142	50-200		9/26/23 20:49
M5PFPeA	94.7	50-200		9/26/23 20:49
M5PFHxA	93.8	50-200		9/26/23 20:49
M3PFHxS	106	50-200		9/26/23 20:49
M4PFHpA	97.0	50-200		9/26/23 20:49
M8PFOA	101	50-200		9/26/23 20:49
M8PFOS	106	50-200		9/26/23 20:49
M9PFNA	97.9	50-200		9/26/23 20:49
MPFDoA	90.1	50-200		9/26/23 20:49

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I1646-01 [N-02052]	B352012	278	1.00	09/22/23
23I1646-02 [N-02052 FB]	B352012	282	1.00	09/22/23
23I1646-03 [GAC-02052]	B352012	268	1.00	09/22/23
23I1646-04 [GAC-02052 FB]	B352012	275	1.00	09/22/23

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B352012 - EPA 533										
Blank (B352012-BLK1)				Prepared: 09/22/23 Analyzed: 09/26/23						
Perfluorobutanoic acid (PFBA)	ND	1.9	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.9	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.9	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.9	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.9	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.9	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.9	ng/L							
Surrogate: M2-4:2FTS	*28.6*		ng/L	35.6		80.5	50-200			
Surrogate: M2-8:2FTS	*37.1*		ng/L	36.4		102	50-200			
Surrogate: MPFBA	*39.0*		ng/L	37.9		103	50-200			
Surrogate: M3HFPO-DA	*57.8*		ng/L	37.9		152	50-200			
Surrogate: M6PFDA	*36.7*		ng/L	37.9		96.9	50-200			
Surrogate: M3PFBS	*36.1*		ng/L	35.4		102	50-200			
Surrogate: M7PFUnA	*36.3*		ng/L	37.9		95.8	50-200			
Surrogate: M2-6:2FTS	*44.4*		ng/L	36.1		123	50-200			
Surrogate: M5PFPeA	*37.3*		ng/L	37.9		98.2	50-200			
Surrogate: M5PFHxA	*37.1*		ng/L	37.9		97.7	50-200			
Surrogate: M3PFHxS	*37.2*		ng/L	36.0		104	50-200			
Surrogate: M4PFHpA	*37.8*		ng/L	37.9		99.5	50-200			
Surrogate: M8PFOA	*42.5*		ng/L	37.9		112	50-200			
Surrogate: M8PFOS	*34.7*		ng/L	36.4		95.3	50-200			
Surrogate: M9PFNA	*37.3*		ng/L	37.9		98.5	50-200			
Surrogate: MPFDoA	*33.9*		ng/L	37.9		89.5	50-200			
LCS (B352012-BS1)				Prepared: 09/22/23 Analyzed: 09/26/23						
Perfluorobutanoic acid (PFBA)	19.1	1.9	ng/L	19.0		100	70-130			
Perfluorobutanesulfonic acid (PFBS)	17.2	1.9	ng/L	16.8		102	70-130			
Perfluoropentanoic acid (PFPeA)	19.4	1.9	ng/L	19.0		102	70-130			
Perfluorohexanoic acid (PFHxA)	20.4	1.9	ng/L	19.0		107	70-130			
11Cl-PF3OUdS (F53B Major)	15.3	1.9	ng/L	17.9		85.2	70-130			
9Cl-PF3ONS (F53B Minor)	14.0	1.9	ng/L	17.7		79.2	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B352012 - EPA 533											
LCS (B352012-BS1)				Prepared: 09/22/23 Analyzed: 09/26/23							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	15.5	1.9	ng/L	17.9		86.8		70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	17.9	1.9	ng/L	19.0		94.1		70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	18.3	1.9	ng/L	18.2		100		70-130			
Perfluorodecanoic acid (PFDA)	18.9	1.9	ng/L	19.0		99.5		70-130			
Perfluorododecanoic acid (PFDoA)	18.7	1.9	ng/L	19.0		98.5		70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	16.5	1.9	ng/L	16.9		97.8		70-130			
Perfluoroheptanesulfonic acid (PFHpS)	20.6	1.9	ng/L	18.1		114		70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	18.5	1.9	ng/L	17.8		104		70-130			
Perfluorohexanesulfonic acid (PFHxS)	16.9	1.9	ng/L	17.4		97.3		70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	17.6	1.9	ng/L	19.0		92.4		70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	18.1	1.9	ng/L	19.0		95.3		70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	23.6	1.9	ng/L	18.1		**131**	*	70-130			L-07
Perfluoropentanesulfonic acid (PFPeS)	17.9	1.9	ng/L	17.9		100		70-130			
Perfluoroundecanoic acid (PFUnA)	17.3	1.9	ng/L	19.0		90.8		70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	21.6	1.9	ng/L	19.0		114		70-130			
Perfluoroheptanoic acid (PFHpA)	18.9	1.9	ng/L	19.0		99.6		70-130			
Perfluorooctanoic acid (PFOA)	19.2	1.9	ng/L	19.0		101		70-130			
Perfluorooctanesulfonic acid (PFOS)	17.5	1.9	ng/L	17.6		99.4		70-130			
Perfluorononanoic acid (PFNA)	18.7	1.9	ng/L	19.0		98.3		70-130			
Surrogate: M2-4:2FTS	*29.5*		ng/L	35.7		82.8		50-200			
Surrogate: M2-8:2FTS	*39.6*		ng/L	36.5		109		50-200			
Surrogate: MPFBA	*36.9*		ng/L	38.0		97.0		50-200			
Surrogate: M3HFPO-DA	*53.1*		ng/L	38.0		140		50-200			
Surrogate: M6PFDA	*34.3*		ng/L	38.0		90.2		50-200			
Surrogate: M3PFBS	*35.8*		ng/L	35.4		101		50-200			
Surrogate: M7PFUnA	*37.0*		ng/L	38.0		97.3		50-200			
Surrogate: M2-6:2FTS	*41.5*		ng/L	36.1		115		50-200			
Surrogate: M5PFPeA	*35.8*		ng/L	38.0		94.1		50-200			
Surrogate: M5PFHxA	*34.5*		ng/L	38.0		90.7		50-200			
Surrogate: M3PFHxS	*37.9*		ng/L	36.0		105		50-200			
Surrogate: M4PFHpA	*35.1*		ng/L	38.0		92.3		50-200			
Surrogate: M8PFOA	*38.1*		ng/L	38.0		100		50-200			
Surrogate: M8PFOS	*37.4*		ng/L	36.5		103		50-200			
Surrogate: M9PFNA	*36.0*		ng/L	38.0		94.7		50-200			
Surrogate: MPFDoA	*34.8*		ng/L	38.0		91.7		50-200			
LCS Dup (B352012-BSD1)				Prepared: 09/22/23 Analyzed: 09/26/23							
Perfluorobutanoic acid (PFBA)	20.4	1.9	ng/L	19.2		106		70-130	6.62	30	
Perfluorobutanesulfonic acid (PFBS)	18.0	1.9	ng/L	17.0		106		70-130	4.31	30	
Perfluoropentanoic acid (PFPeA)	20.5	1.9	ng/L	19.2		107		70-130	5.47	30	
Perfluorohexanoic acid (PFHxA)	21.6	1.9	ng/L	19.2		113		70-130	5.93	30	
11Cl-PF3OUdS (F53B Major)	17.1	1.9	ng/L	18.1		94.5		70-130	11.3	30	
9Cl-PF3ONS (F53B Minor)	15.6	1.9	ng/L	17.9		87.0		70-130	10.4	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	15.8	1.9	ng/L	18.1		87.6		70-130	1.80	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	14.3	1.9	ng/L	19.2		74.7		70-130	22.2	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	19.9	1.9	ng/L	18.4		108		70-130	8.55	30	
Perfluorodecanoic acid (PFDA)	19.7	1.9	ng/L	19.2		103		70-130	3.93	30	
Perfluorododecanoic acid (PFDoA)	19.9	1.9	ng/L	19.2		104		70-130	6.15	30	

con-test®
A Pace Analytical® Laboratory

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B352012 - EPA 533										
LCS Dup (B352012-BSD1)				Prepared: 09/22/23 Analyzed: 09/26/23						
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	17.7	1.9	ng/L	17.1		104	70-130	6.83	30	
Perfluoroheptanesulfonic acid (PFHpS)	22.2	1.9	ng/L	18.3		121	70-130	7.46	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	19.9	1.9	ng/L	17.9		111	70-130	7.56	30	
Perfluorohexanesulfonic acid (PFHxS)	17.7	1.9	ng/L	17.6		101	70-130	4.50	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	18.5	1.9	ng/L	19.2		96.7	70-130	5.41	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	18.9	1.9	ng/L	19.2		98.4	70-130	4.14	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	22.4	1.9	ng/L	18.2		123	70-130	5.15	30	
Perfluoropentanesulfonic acid (PFPeS)	17.9	1.9	ng/L	18.0		99.5	70-130	0.0765	30	
Perfluoroundecanoic acid (PFUnA)	18.8	1.9	ng/L	19.2		97.9	70-130	8.46	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	22.2	1.9	ng/L	19.2		116	70-130	2.90	30	
Perfluoroheptanoic acid (PFHpA)	19.4	1.9	ng/L	19.2		101	70-130	2.44	30	
Perfluorooctanoic acid (PFOA)	19.3	1.9	ng/L	19.2		101	70-130	0.558	30	
Perfluorooctanesulfonic acid (PFOS)	18.5	1.9	ng/L	17.7		104	70-130	5.54	30	
Perfluorononanoic acid (PFNA)	21.7	1.9	ng/L	19.2		113	70-130	14.9	30	
Surrogate: M2-4:2FTS	*29.2*		ng/L	36.0		81.1	50-200			
Surrogate: M2-8:2FTS	*37.8*		ng/L	36.8		103	50-200			
Surrogate: MPFBA	*33.8*		ng/L	38.4		88.2	50-200			
Surrogate: M3HFPO-DA	*58.0*		ng/L	38.4		151	50-200			
Surrogate: M6PFDA	*33.9*		ng/L	38.4		88.4	50-200			
Surrogate: M3PFBS	*35.0*		ng/L	35.8		98.0	50-200			
Surrogate: M7PFUnA	*34.4*		ng/L	38.4		89.6	50-200			
Surrogate: M2-6:2FTS	*43.1*		ng/L	36.5		118	50-200			
Surrogate: M5PFPeA	*33.0*		ng/L	38.4		86.1	50-200			
Surrogate: M5PFHxA	*32.1*		ng/L	38.4		83.7	50-200			
Surrogate: M3PFHxS	*38.3*		ng/L	36.4		105	50-200			
Surrogate: M4PFHpA	*33.8*		ng/L	38.4		88.0	50-200			
Surrogate: M8PFOA	*37.5*		ng/L	38.4		97.7	50-200			
Surrogate: M8PFOS	*34.4*		ng/L	36.8		93.5	50-200			
Surrogate: M9PFNA	*33.2*		ng/L	38.4		86.5	50-200			
Surrogate: MPFDoA	*34.4*		ng/L	38.4		89.7	50-200			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
S-29	Extracted Internal Standard is outside of control limits.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA,CT
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA,CT
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA,CT
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA,CT
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA,CT
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA,CT

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2024
ME	State of Maine	MA00100	06/9/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024

23I1646 MF

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: [X] Yes ☐ No

Pace

Workorder: 70269985 **Workorder Name:** 1,4 DIOXANE/533 9/11 **Owner Received Date:** 9/11/2023 **Results Requested By:** 9/26/2023

Report To

Jennifer Aracri
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone 516-370-6016

Subcontract To

Pace New England
39 Spruce St.
East Longmeadow, MA 01028
Phone (413)525-2332

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other						Requested Analysis: PFAS by 533												LAB USE ONLY
1	N-02052	PS	9/11/2023 09:04	70269985001	Drinking	1						X												
2	N-02052 FB	PS	9/11/2023 09:04	70269985002	Drinking	1						X												
3	GAC-02052	PS	9/11/2023 09:38	70269985003	Drinking	1						X												
4	GAC-02052 FB	PS	9/11/2023 09:38	70269985004	Drinking	1						X												
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible] LI	9/13/23 [illegible]	MSMA(AAL)	9/13 1744
2	MSMA(AAL)	9/13 2100	Anthony Green SEP 13 2023	2100
3	Anthony Green	9/14 0110	[illegible]	9/14/23 0110

Comments: 25 Compound List

Cooler Temperature on Receipt ____ °C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

[illegible] 9/14/23 0945 [illegible] AAL 9/14/23 07:00

[illegible] AAL 9/14/23 09:25 [illegible] 0925 9-14-23 3.5°C

I.I

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client: Pace

Project: 1,4 Dioxane/533 9/11

MCP/RCP Required: MA

Deliverable Package Requirement: MA

Location: 1,4 Dioxane 533 9/11

PWSID# (When Applicable): MA

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time: AM 9/14/23 925

Back-Sheet By / Date / Time: LA 9/14/23 1257

Temperature Method: gun # 5

Temp ≤ 6° C Actual Temperature: 3.5

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☐
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	Soils Jars (Circle Amb/Clear)																					
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear																						
Unpreserved	Ambers	1 Liter																				
HCL																						
Sulfuric																						
Sulfuric		250mL																				
Phosphoric																						
HCl																						
Unpreserved		100mL																				
Unpreserved	Plastics	1 Liter																				
Sulfuric																						
Unpreserved		500mL																				
Sulfuric																						
Unpreserved		250mL																				
Trizma																						
Sulfuric																						
Nitric																						
NaOH																						
Ammonium Acetate			2	1	1	1																
NaOH/Zinc																						
Unpreserved	VOA Vials																					
HCl																						
MeOH																						
D.I. Water																						
BiSulfate																						
Col/Bact	Other / Fill in																					

Qualtrax ID: 120836

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Special

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70270950001
Client Sample ID.: N-02052

Federal ID : 2912267
Collected : 09/19/2023 08:56 AM Point N-02052
Received : 09/19/2023 10:57 AM Location Hewlett 4
Collected By CLIENT Flwr Hl

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 09/21/2023 8:54 AM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.99		1	ug/L	1	09/21/2023 4:54 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	100%		1	%REC		09/21/2023 4:54 PM	001 AG2R1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 09/22/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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WorkOrder :
70270950

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

WO# : 70270950

70270950

747

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 9/19/23

Collected By: R. Mallon

Accepted By: [illegible] 9/19/23

Cooler Temp: 11.7 °C 10:57 (B)

☐ WELL OFF LINE _____

☐ WELL RUN TO SYSTEM _____

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Paul Prignano, Superintendent

Address: Port Washington Water District
38 Sandy Hollow Road
P.O. Box 432
Port Washington, NY 11050

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
9/19/23 0856	GW	Hewlett 4 N-02052	RW	O	S			1,4 Dioxane	

Remarks: * Results to Superintendent Paul Prignano ONLY *

WO#: 70270950
PM: JSA **Due Date: 09/29/23**
CLIENT: PWW

Client Name: PWW Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: T4197 Correction Factor: -0.4 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 11.7 Cooler Temperature Corrected(°C): 11.3 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6 0°C

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

				COMMENTS:
Chain of Custody Present	☒Yes	☐No		1.
Chain of Custody Filled Out	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested	☐Yes	☒No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
-Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests	☒Yes	☐No	☒N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:	☒Yes	☐No		12.

Date and Initials of person checking preservation:

All containers needing preservation have been checked.	☐Yes	☐No	☒N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	☒N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water) Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul	☐Yes	☐No	☒N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	16.
Trip Blank Present	☐Yes	☐No	☒N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Special

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70272009001
Client Sample ID.: N-07552

Federal ID : 2912267
Collected : 09/27/2023 09:04 AM Point N-07552
Received : 09/27/2023 11:05 AM Location Morely Pk 9
Collected By CLIENT No Hls

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.
RUN TO WASTE

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 09/29/2023 10:37

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	**9.4***		5	ug/L	1	10/01/2023 12:30	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	103%		5	%REC		10/01/2023 12:30	001 AG2R1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 10/02/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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WorkOrder :
70272009

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

WO#: 70272009

70272009

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 9/27/23

Collected By: Richard Zimbardi

Accepted By: Syd P-I, 11:05

Cooler Temp: 14.8 °C (B)

☑ WELL OFF LINE

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Paul Prignano, Superintendent

Address: Port Washington Water District
38 Sandy Hollow Road
P.O. Box 432
Port Washington, NY 11050

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
9/27/23 9:04	GW	Morley 9 N-07552	RW	O	S			Dioxane	

Remarks: * Results to Paul Prignano Superintendent only *

Client: PWW

Profile #: 5141

Work ID: 1,4 Dioxane 9/27

COC Page _____ of _____

☑ Use Point Number Spreadsheet

☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
1																				2																																
2																																																				
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9																																																				
10																																																				
11																																																				
12																																																				

Container Codes

Glass			
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass
		AG1A	(NH4Cl)
WG9O	8oz clear soil jar		
WG4O	4oz clear soil jar		

Plastic	
BP4U	125mL unpreserved plastic
BP3U	250mL unpreserved plastic
BP2U	500mL unpreserved plastic
BP1U	1L unpreserved plastic
BP4N	125mL HNO3 plastic
BP3N	250mL HNO3 plastic
BP2N	500mL HNO3 plastic
BP3S	250mL H2SO4 plastic
BP2S	500mL H2SO4 plastic
BP3C	NaOH 250mL bottle
BP3T	250mL Trizma
BP3S	250mL Ammonium Acetate
BP3R	250mL NH4SO4-NH4OH
BP1Z	1L NaOH, Zn Acetate
BP1N	1L HNO3 plastic
BP1B	Na Thiosulfate Amber Bottle

Misc.	
SP5T	120mL Coliform Na Thio
R	Terracore Kit
WG2U	2oz Unpreserved Jar
WGFU	4oz Unpreserved Jar
WGKU	8oz Unpreserved Jar
WGDU	16oz Unpreserved Jar
ZPLC	Ziplock Bag
TEDL	Tedlar Bag
BG1H	1L HCL Clear Glass
GN	General
WP	Wipe

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosultate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials JB

Additional Comments

WO#: 70272009

PM: JSA **Due Date: 10/09/23**

CLIENT: PWW

WO# : 70272009
PM: JSA Due Date: 10/09/23
CLIENT: PWW

Client Name: PWW Project

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Oth

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☑ Yes ☐ No Temperature Blank Present: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH96 Correction Factor: −0.4 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 14.8 Cooler Temperature Corrected(°C): 14.4 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6 D°C

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: SH 9/27/23

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: * -Includes date/time/ID/Analysis Matrix:	☑Yes SL WT OIL OTHER	☐No		12.

Date and Initials of person checking preservation: SH 9/27/23

All containers needing preservation have been checked. pH paper Lot #	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☑N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Special

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70272009001
Client Sample ID.: N-07552

Federal ID : 2912267
Collected : 09/27/2023 09:04 AM Point N-07552
Received : 09/27/2023 11:05 AM Location Morely Pk 9
Collected By CLIENT No Hls

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.
RUN TO WASTE

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 09/29/2023 10:37

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	**9.4***		5	ug/L	1	10/01/2023 12:30	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	103%		5	%REC		10/01/2023 12:30	001 AG2R1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 10/02/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70272009

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

WO#: 70272009

70272009

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 9/27/23

Collected By: Richard Zimbardi

Accepted By: Syd P-I, 11:05

Cooler Temp: 14.8 °C (B)

☑ WELL OFF LINE

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Paul Prignano, Superintendent

Address: Port Washington Water District
38 Sandy Hollow Road
P.O. Box 432
Port Washington, NY 11050

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
9/27/23 9:04	GW	Morley 9 N-07552	RW	O	S			Dioxane	

Remarks: * Results to Paul Prignano Superintendent only *

Client: PWW

Profile #: 5141

Work ID: 1,4 Dioxane 9/27

COC Page _____ of _____

☑ Use Point Number Spreadsheet

☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
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10																																																				
11																																																				
12																																																				

Container Codes

Glass			
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass
		AG1A	(NH4Cl)
WG9O	8oz clear soil jar		
WG4O	4oz clear soil jar		

Plastic	
BP4U	125mL unpreserved plastic
BP3U	250mL unpreserved plastic
BP2U	500mL unpreserved plastic
BP1U	1L unpreserved plastic
BP4N	125mL HNO3 plastic
BP3N	250mL HNO3 plastic
BP2N	500mL HNO3 plastic
BP3S	250mL H2SO4 plastic
BP2S	500mL H2SO4 plastic
BP3C	NaOH 250mL bottle
BP3T	250mL Trizma
BP3S	250mL Ammonium Acetate
BP3R	250mL NH4SO4-NH4OH
BP1Z	1L NaOH, Zn Acetate
BP1N	1L HNO3 plastic
BP1B	Na Thiosulfate Amber Bottle

Misc.	
SP5T	120mL Coliform Na Thio
R	Terracore Kit
WG2U	2oz Unpreserved Jar
WGFU	4oz Unpreserved Jar
WGKU	8oz Unpreserved Jar
WGDU	16oz Unpreserved Jar
ZPLC	Ziplock Bag
TEDL	Tedlar Bag
BG1H	1L HCL Clear Glass
GN	General
WP	Wipe

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosultate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials JB

Additional Comments

WO#: 70272009

PM: JSA **Due Date: 10/09/23**

CLIENT: PWW

WO# : 70272009
PM: JSA Due Date: 10/09/23
CLIENT: PWW

Client Name: PWW Project

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Oth

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☑ Yes ☐ No Temperature Blank Present: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH96 Correction Factor: −0.4 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 14.8 Cooler Temperature Corrected(°C): 14.4 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6 D°C

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: SH 9/27/23

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: * -Includes date/time/ID/Analysis Matrix:	☑Yes SL WT OIL OTHER	☐No		12.

Date and Initials of person checking preservation: SH 9/27/23

All containers needing preservation have been checked. pH paper Lot #	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☑N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70270203001
Client Sample ID.: N-09809

Federal ID : 2912267
Collected : 09/12/2023 10:02 AM Point N-09809
Received : 09/12/2023 11:40 AM Location Stoneytown 10
Collected By CLIENT Flwr Hl

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 09/14/2023 3:00 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.62		1	ug/L	1	09/14/2023 11:24	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	86%		1	%REC		09/14/2023 11:24	001 AG2R1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 10/01/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:

Type: Drinking Water
Origin: Treated Well
Routine

Treatment

GAC

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70270203003
Client Sample ID.: GAC-09809

Federal ID : 2912267
Collected : 09/12/2023 10:11 AM Point GAC-09809
Received : 09/12/2023 11:40 AM Location Stoneytown 10
Collected By CLIENT GAC

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 09/14/2023 3:00 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.67		1	ug/L	1	09/14/2023 11:40	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	89%		1	%REC		09/14/2023 11:40	003 AG2R1/2

Analytical Method: EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,1-Dichloroethane	0.79		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Benzene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		09/20/2023 2:06 PM	003 VG9C1/2
Bromoform	<0.50		1	ug/L		09/20/2023 2:06 PM	003 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Chlorodifluoromethane	<0.50	N3	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Chloroform	<0.50		1	ug/L		09/20/2023 2:06 PM	003 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:

Type: Drinking Water
Origin: Treated Well
Routine

Treatment

GAC

Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050
Attn To : Supt.Paul Prignano

Lab No. : 70270203003
Client Sample ID.: GAC-09809

Federal ID : 2912267
Collected : 09/12/2023 10:11 AM Point GAC-09809
Received : 09/12/2023 11:40 AM Location Stoneytown 10
Collected By CLIENT GAC

Dibromochloromethane	<0.50	1	ug/L		09/20/2023 2:06 PM	003 VG9C1/2
Dibromomethane	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Dichlorodifluoromethane	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Ethylbenzene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Hexachloro-1,3-butadiene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Isopropylbenzene (Cumene)	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Methyl-tert-butyl ether	<0.50	1	ug/L	10	09/20/2023 2:06 PM	003 VG9C1/2
Methylene Chloride	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Styrene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Tetrachloroethene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Toluene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50	1	ug/L	80	09/20/2023 2:06 PM	003 VG9C1/2
Trichloroethene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Trichlorofluoromethane	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Vinyl chloride	<0.50	1	ug/L	2	09/20/2023 2:06 PM	003 VG9C1/2
cis-1,2-Dichloroethene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
cis-1,3-Dichloropropene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
m&p-Xylene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
n-Butylbenzene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
n-Propylbenzene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
o-Xylene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
p-Isopropyltoluene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
sec-Butylbenzene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
tert-Butylbenzene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
trans-1,2-Dichloroethene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
trans-1,3-Dichloropropene	<0.50	1	ug/L	5	09/20/2023 2:06 PM	003 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	91%	1	%REC		09/20/2023 2:06 PM	003 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	85%	1	%REC		09/20/2023 2:06 PM	003 VG9C1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70270203

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70270203

Additional Qualifiers

N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

WO#: 70270203

70270203

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 9/12/23

Collected By: Richard Zimbardi

Accepted By: Opal P-KE, 11:40

Cooler Temp: 18.7 °C (N)

☐ WELL OFF LINE

☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Paul Prignano, Superintendent

Address: Port Washington Water District, 38 Sandy Hollow Road, P.O. Box 432, Port Washington, NY 11050

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
9/12/23 10:02	GW	Stonytown 10 N-09809	RW	O	RO			Dioxane, 533 w Field Blank	
10:11	GW	Stonytown 10 GAC-09809	TW	GAC	RO			POC, Dioxane, 533 w Field Blank	

Remarks:

WO#: 70270203
PM: JSA **Due Date: 09/21/23**
CLIENT: PWW

Client Name: PWW Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No Temperature Blank Present: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH196 Correction Factor: -0.4 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 18.7 Cooler Temperature Corrected(°C): 18.3 Date/Time 5035A kits placed in freezer _____
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: AS 9/13/23

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☐Yes	☑No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No		12.
	Matrix: SL WT OIL OTHER			

Date and Initials of person checking preservation: AS

All containers needing preservation have been pH paper Lot # All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☑N/A ☐Yes ☐No ☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample # Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 29, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: 1,4 DIOXANE/533/ 9/12
Client Job Number:
Project Number: 70270203
Laboratory Work Order Number: 23I1864

Enclosed are results of analyses for samples as received by the laboratory on September 15, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 9/29/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70270203

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23I1864

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1,4 DIOXANE/533/ 9/12

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-09809	23I1864-01	Drinking Water		EPA 533	
N-09809 FB	23I1864-02	Field Blank		EPA 533	
GAC-09809	23I1864-03	Drinking Water		EPA 533	
GAC-09809 FB	23I1864-04	Field Blank		EPA 533	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4 DIOXANE/533/ 9/12 Sample Description: Work Order: 23I1864

Date Received: 9/15/2023

Field Sample #: N-09809 Sampled: 9/12/2023 10:02

Sample ID: 23I1864-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.0	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluoropentanoic acid (PFPeA)	4.0	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluorohexanoic acid (PFHxA)	3.9	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluorohexanesulfonic acid (PFHxS)	3.8	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluoroheptanoic acid (PFHpA)	2.3	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluorooctanoic acid (PFOA)	6.9	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	9/27/23	9/28/23 13:22	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	57.8	50-200		9/28/23 13:22
M2-8:2FTS	81.3	50-200		9/28/23 13:22
MPFBA	82.2	50-200		9/28/23 13:22
M3HFPO-DA	69.9	50-200		9/28/23 13:22
M6PFDA	68.2	50-200		9/28/23 13:22
M3PFBS	83.1	50-200		9/28/23 13:22
M7PFUnA	67.0	50-200		9/28/23 13:22
M2-6:2FTS	107	50-200		9/28/23 13:22
M5PFPeA	85.7	50-200		9/28/23 13:22
M5PFHxA	70.7	50-200		9/28/23 13:22
M3PFHxS	83.4	50-200		9/28/23 13:22
M4PFHpA	67.1	50-200		9/28/23 13:22
M8PFOA	67.7	50-200		9/28/23 13:22
M8PFOS	83.2	50-200		9/28/23 13:22
M9PFNA	66.1	50-200		9/28/23 13:22
MPFDoA	68.6	50-200		9/28/23 13:22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4 DIOXANE/533/ 9/12 Sample Description: Work Order: 23I1864

Date Received: 9/15/2023

Field Sample #: N-09809 FB Sampled: 9/12/2023 10:02

Sample ID: 23I1864-02

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluorodecanoic acid (PFDA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluorooctanoic acid (PFOA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2
Perfluorononanoic acid (PFNA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:03	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	78.3	50-200		9/25/23 10:03
M2-8:2FTS	107	50-200		9/25/23 10:03
MPFBA	106	50-200		9/25/23 10:03
M3HFPO-DA	107	50-200		9/25/23 10:03
M6PFDA	100	50-200		9/25/23 10:03
M3PFBS	102	50-200		9/25/23 10:03
M7PFUnA	104	50-200		9/25/23 10:03
M2-6:2FTS	197	50-200		9/25/23 10:03
M5PFPeA	103	50-200		9/25/23 10:03
M5PFHxA	101	50-200		9/25/23 10:03
M3PFHxS	98.0	50-200		9/25/23 10:03
M4PFHpA	102	50-200		9/25/23 10:03
M8PFOA	106	50-200		9/25/23 10:03
M8PFOS	101	50-200		9/25/23 10:03
M9PFNA	102	50-200		9/25/23 10:03
MPFDoA	96.7	50-200		9/25/23 10:03

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Project Location: 1,4 DIOXANE/533/ 9/12 Sample Description: Work Order: 23I1864

Date Received: 9/15/2023

Field Sample #: GAC-09809 Sampled: 9/12/2023 10:11

Sample ID: 23I1864-03

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.1	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluoropentanoic acid (PFPeA)	4.2	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluorohexanoic acid (PFHxA)	4.2	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluorohexanesulfonic acid (PFHxS)	2.5	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluoroheptanoic acid (PFHpA)	2.0	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluorooctanoic acid (PFOA)	4.9	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	9/18/23	9/25/23 10:11	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	62.6	50-200		9/25/23 10:11
M2-8:2FTS	98.1	50-200		9/25/23 10:11
MPFBA	94.8	50-200		9/25/23 10:11
M3HFPO-DA	96.2	50-200		9/25/23 10:11
M6PFDA	81.5	50-200		9/25/23 10:11
M3PFBS	103	50-200		9/25/23 10:11
M7PFUnA	87.7	50-200		9/25/23 10:11
M2-6:2FTS	119	50-200		9/25/23 10:11
M5PFPeA	91.8	50-200		9/25/23 10:11
M5PFHxA	85.5	50-200		9/25/23 10:11
M3PFHxS	105	50-200		9/25/23 10:11
M4PFHpA	82.5	50-200		9/25/23 10:11
M8PFOA	87.9	50-200		9/25/23 10:11
M8PFOS	104	50-200		9/25/23 10:11
M9PFNA	81.3	50-200		9/25/23 10:11
MPFDoA	77.4	50-200		9/25/23 10:11

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Project Location: 1,4 DIOXANE/533/ 9/12 Sample Description: Work Order: 23I1864

Date Received: 9/15/2023

Field Sample #: GAC-09809 FB Sampled: 9/12/2023 10:11

Sample ID: 23I1864-04

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluorodecanoic acid (PFDA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluorooctanoic acid (PFOA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2
Perfluorononanoic acid (PFNA)	ND	1.9	ng/L	1		EPA 533	9/18/23	9/25/23 10:19	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	71.9	50-200		9/25/23 10:19
M2-8:2FTS	108	50-200		9/25/23 10:19
MPFBA	102	50-200		9/25/23 10:19
M3HFPO-DA	102	50-200		9/25/23 10:19
M6PFDA	103	50-200		9/25/23 10:19
M3PFBS	95.2	50-200		9/25/23 10:19
M7PFUnA	103	50-200		9/25/23 10:19
M2-6:2FTS	167	50-200		9/25/23 10:19
M5PFPeA	99.7	50-200		9/25/23 10:19
M5PFHxA	98.7	50-200		9/25/23 10:19
M3PFHxS	92.9	50-200		9/25/23 10:19
M4PFHpA	98.4	50-200		9/25/23 10:19
M8PFOA	102	50-200		9/25/23 10:19
M8PFOS	96.5	50-200		9/25/23 10:19
M9PFNA	102	50-200		9/25/23 10:19
MPFDoA	99.3	50-200		9/25/23 10:19

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Sample Extraction Data

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I1864-02 [N-09809 FB]	B352296	263	1.00	09/18/23
23I1864-03 [GAC-09809]	B352296	274	1.00	09/18/23
23I1864-04 [GAC-09809 FB]	B352296	260	1.00	09/18/23

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I1864-01RE1 [N-09809]	B353117	282	1.00	09/27/23

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B352296 - EPA 533										
Blank (B352296-BLK1)				Prepared: 09/18/23 Analyzed: 09/25/23						
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Surrogate: M2-4:2FTS	*31.4*		ng/L	38.0		82.8	50-200			
Surrogate: M2-8:2FTS	*40.4*		ng/L	38.8		104	50-200			
Surrogate: MPFBA	*40.5*		ng/L	40.5		100	50-200			
Surrogate: M3HFPO-DA	*38.8*		ng/L	40.5		95.9	50-200			
Surrogate: M6PFDA	*36.2*		ng/L	40.5		89.4	50-200			
Surrogate: M3PFBS	*35.9*		ng/L	37.7		95.2	50-200			
Surrogate: M7PFUnA	*38.3*		ng/L	40.5		94.6	50-200			
Surrogate: M2-6:2FTS	*69.5*		ng/L	38.5		181	50-200			
Surrogate: M5PFPeA	*39.6*		ng/L	40.5		97.8	50-200			
Surrogate: M5PFHxA	*38.2*		ng/L	40.5		94.3	50-200			
Surrogate: M3PFHxS	*35.2*		ng/L	38.4		91.9	50-200			
Surrogate: M4PFHpA	*38.3*		ng/L	40.5		94.7	50-200			
Surrogate: M8PFOA	*40.3*		ng/L	40.5		99.5	50-200			
Surrogate: M8PFOS	*37.4*		ng/L	38.8		96.3	50-200			
Surrogate: M9PFNA	*39.1*		ng/L	40.5		96.7	50-200			
Surrogate: MPFDoA	*36.3*		ng/L	40.5		89.8	50-200			
LCS (B352296-BS1)				Prepared: 09/18/23 Analyzed: 09/25/23						
Perfluorobutanoic acid (PFBA)	19.2	1.9	ng/L	18.6		103	70-130			
Perfluorobutanesulfonic acid (PFBS)	17.2	1.9	ng/L	16.4		104	70-130			
Perfluoropentanoic acid (PFPeA)	19.8	1.9	ng/L	18.6		106	70-130			
Perfluorohexanoic acid (PFHxA)	19.6	1.9	ng/L	18.6		106	70-130			
11Cl-PF3OUdS (F53B Major)	15.2	1.9	ng/L	17.5		86.8	70-130			
9Cl-PF3ONS (F53B Minor)	13.8	1.9	ng/L	17.3		79.9	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B352296 - EPA 533										
LCS (B352296-BS1)				Prepared: 09/18/23 Analyzed: 09/25/23						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	14.5	1.9	ng/L	17.5		83.1	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	16.4	1.9	ng/L	18.6		88.4	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	17.3	1.9	ng/L	17.8		96.9	70-130			
Perfluorodecanoic acid (PFDA)	18.1	1.9	ng/L	18.6		97.4	70-130			
Perfluorododecanoic acid (PFDoA)	18.2	1.9	ng/L	18.6		97.8	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	16.1	1.9	ng/L	16.5		97.6	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	19.3	1.9	ng/L	17.7		109	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	19.0	1.9	ng/L	17.4		109	70-130			
Perfluorohexanesulfonic acid (PFHxS)	17.3	1.9	ng/L	17.0		102	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	18.8	1.9	ng/L	18.6		101	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	18.2	1.9	ng/L	18.6		98.1	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	21.3	1.9	ng/L	17.6		121	70-130			
Perfluoropentanesulfonic acid (PFPeS)	18.7	1.9	ng/L	17.5		107	70-130			
Perfluoroundecanoic acid (PFUnA)	18.7	1.9	ng/L	18.6		101	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	20.5	1.9	ng/L	18.6		110	70-130			
Perfluoroheptanoic acid (PFHpA)	18.4	1.9	ng/L	18.6		98.8	70-130			
Perfluorooctanoic acid (PFOA)	20.1	1.9	ng/L	18.6		108	70-130			
Perfluorooctanesulfonic acid (PFOS)	16.3	1.9	ng/L	17.2		94.9	70-130			
Perfluorononanoic acid (PFNA)	19.7	1.9	ng/L	18.6		106	70-130			
Surrogate: M2-4:2FTS	*23.4*		ng/L	34.8		67.3	50-200			
Surrogate: M2-8:2FTS	*33.5*		ng/L	35.7		93.9	50-200			
Surrogate: MPFBA	*37.0*		ng/L	37.1		99.6	50-200			
Surrogate: M3HFPO-DA	*37.8*		ng/L	37.1		102	50-200			
Surrogate: M6PFDA	*32.3*		ng/L	37.1		87.0	50-200			
Surrogate: M3PFBS	*32.3*		ng/L	34.6		93.2	50-200			
Surrogate: M7PFUnA	*32.9*		ng/L	37.1		88.5	50-200			
Surrogate: M2-6:2FTS	*56.9*		ng/L	35.3		161	50-200			
Surrogate: M5PFPeA	*35.5*		ng/L	37.1		95.5	50-200			
Surrogate: M5PFHxA	*34.0*		ng/L	37.1		91.5	50-200			
Surrogate: M3PFHxS	*32.6*		ng/L	35.2		92.6	50-200			
Surrogate: M4PFHpA	*33.5*		ng/L	37.1		90.3	50-200			
Surrogate: M8PFOA	*34.1*		ng/L	37.1		91.7	50-200			
Surrogate: M8PFOS	*34.6*		ng/L	35.6		97.1	50-200			
Surrogate: M9PFNA	*33.5*		ng/L	37.1		90.1	50-200			
Surrogate: MPFDoA	*33.8*		ng/L	37.1		91.1	50-200			
LCS Dup (B352296-BSD1)				Prepared: 09/18/23 Analyzed: 09/25/23						
Perfluorobutanoic acid (PFBA)	20.4	2.0	ng/L	20.1		101	70-130	5.94	30	
Perfluorobutanesulfonic acid (PFBS)	18.5	2.0	ng/L	17.8		104	70-130	7.49	30	
Perfluoropentanoic acid (PFPeA)	20.6	2.0	ng/L	20.1		102	70-130	3.93	30	
Perfluorohexanoic acid (PFHxA)	21.3	2.0	ng/L	20.1		106	70-130	8.10	30	
11Cl-PF3OUdS (F53B Major)	15.9	2.0	ng/L	18.9		84.2	70-130	4.89	30	
9Cl-PF3ONS (F53B Minor)	15.0	2.0	ng/L	18.7		79.9	70-130	8.06	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	16.0	2.0	ng/L	18.9		84.3	70-130	9.39	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	17.3	2.0	ng/L	20.1		85.8	70-130	4.99	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	19.4	2.0	ng/L	19.3		100	70-130	11.6	30	
Perfluorodecanoic acid (PFDA)	20.5	2.0	ng/L	20.1		102	70-130	12.7	30	
Perfluorododecanoic acid (PFDoA)	19.4	2.0	ng/L	20.1		96.7	70-130	6.77	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B352296 - EPA 533										
LCS Dup (B352296-BSD1)				Prepared: 09/18/23 Analyzed: 09/25/23						
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	17.4	2.0	ng/L	17.9		97.2	70-130	7.58	30	
Perfluoroheptanesulfonic acid (PFHpS)	21.4	2.0	ng/L	19.2		111	70-130	10.1	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	19.6	2.0	ng/L	18.8		104	70-130	3.16	30	
Perfluorohexanesulfonic acid (PFHxS)	18.2	2.0	ng/L	18.4		99.0	70-130	5.22	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	19.9	2.0	ng/L	20.1		99.0	70-130	5.77	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	19.2	2.0	ng/L	20.1		95.6	70-130	5.37	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	22.4	2.0	ng/L	19.1		117	70-130	4.71	30	
Perfluoropentanesulfonic acid (PFPeS)	19.6	2.0	ng/L	18.9		104	70-130	4.94	30	
Perfluoroundecanoic acid (PFUnA)	21.2	2.0	ng/L	20.1		105	70-130	12.3	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	21.5	2.0	ng/L	20.1		107	70-130	4.70	30	
Perfluoroheptanoic acid (PFHpA)	19.0	2.0	ng/L	20.1		94.4	70-130	3.39	30	
Perfluorooctanoic acid (PFOA)	20.9	2.0	ng/L	20.1		104	70-130	3.89	30	
Perfluorooctanesulfonic acid (PFOS)	19.0	2.0	ng/L	18.6		102	70-130	15.5	30	
Perfluorononanoic acid (PFNA)	20.2	2.0	ng/L	20.1		101	70-130	2.54	30	
Surrogate: M2-4:2FTS	*31.2*		ng/L	37.7		82.7	50-200			
Surrogate: M2-8:2FTS	*39.5*		ng/L	38.6		102	50-200			
Surrogate: MPFBA	*39.3*		ng/L	40.2		97.7	50-200			
Surrogate: M3HFPO-DA	*40.1*		ng/L	40.2		99.8	50-200			
Surrogate: M6PFDA	*37.0*		ng/L	40.2		92.0	50-200			
Surrogate: M3PFBS	*34.7*		ng/L	37.5		92.4	50-200			
Surrogate: M7PFUnA	*37.4*		ng/L	40.2		93.0	50-200			
Surrogate: M2-6:2FTS	*60.5*		ng/L	38.3		158	50-200			
Surrogate: M5PFPeA	*38.5*		ng/L	40.2		95.6	50-200			
Surrogate: M5PFHxA	*37.0*		ng/L	40.2		91.9	50-200			
Surrogate: M3PFHxS	*34.4*		ng/L	38.1		90.3	50-200			
Surrogate: M4PFHpA	*37.7*		ng/L	40.2		93.6	50-200			
Surrogate: M8PFOA	*38.9*		ng/L	40.2		96.7	50-200			
Surrogate: M8PFOS	*36.0*		ng/L	38.6		93.3	50-200			
Surrogate: M9PFNA	*38.4*		ng/L	40.2		95.4	50-200			
Surrogate: MPFDoA	*36.1*		ng/L	40.2		89.7	50-200			
Batch B353117 - EPA 533										
Blank (B353117-BLK1)				Prepared: 09/27/23 Analyzed: 09/28/23						
Perfluorobutanoic acid (PFBA)	ND	1.8	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	ng/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B353117 - EPA 533										
Blank (B353117-BLK1)				Prepared: 09/27/23 Analyzed: 09/28/23						
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8	ng/L							
Surrogate: M2-4:2FTS	*29.9*		ng/L	34.4		87.0	50-200			
Surrogate: M2-8:2FTS	*40.9*		ng/L	35.2		116	50-200			
Surrogate: MPFBA	*34.8*		ng/L	36.6		95.0	50-200			
Surrogate: M3HFPO-DA	*33.6*		ng/L	36.6		91.8	50-200			
Surrogate: M6PFDA	*32.3*		ng/L	36.6		88.2	50-200			
Surrogate: M3PFBS	*33.4*		ng/L	34.1		97.7	50-200			
Surrogate: M7PFUnA	*31.1*		ng/L	36.6		85.0	50-200			
Surrogate: M2-6:2FTS	*58.5*		ng/L	34.8		168	50-200			
Surrogate: M5PFPeA	*35.2*		ng/L	36.6		96.2	50-200			
Surrogate: M5PFHxA	*31.0*		ng/L	36.6		84.6	50-200			
Surrogate: M3PFHxS	*33.7*		ng/L	34.7		97.1	50-200			
Surrogate: M4PFHpA	*31.7*		ng/L	36.6		86.5	50-200			
Surrogate: M8PFOA	*33.2*		ng/L	36.6		90.5	50-200			
Surrogate: M8PFOS	*34.1*		ng/L	35.1		97.2	50-200			
Surrogate: M9PFNA	*31.0*		ng/L	36.6		84.5	50-200			
Surrogate: MPFDoA	*29.2*		ng/L	36.6		79.6	50-200			
LCS (B353117-BS1)				Prepared: 09/27/23 Analyzed: 09/28/23						
Perfluorobutanoic acid (PFBA)	1.95	1.8	ng/L	1.83		106	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.51	1.8	ng/L	1.62		92.8	50-150			
Perfluoropentanoic acid (PFPeA)	1.78	1.8	ng/L	1.83		97.0	50-150			
Perfluorohexanoic acid (PFHxA)	1.76	1.8	ng/L	1.83		96.3	50-150			
11Cl-PF3OUdS (F53B Major)	1.52	1.8	ng/L	1.73		88.0	50-150			
9Cl-PF3ONS (F53B Minor)	1.30	1.8	ng/L	1.71		76.0	50-150			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.37	1.8	ng/L	1.73		79.3	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.62	1.8	ng/L	1.83		88.2	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.73	1.8	ng/L	1.76		98.2	50-150			
Perfluorodecanoic acid (PFDA)	1.43	1.8	ng/L	1.83		77.9	50-150			
Perfluorododecanoic acid (PFDoA)	1.76	1.8	ng/L	1.83		95.9	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.56	1.8	ng/L	1.63		95.8	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.66	1.8	ng/L	1.75		94.9	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.60	1.8	ng/L	1.71		93.3	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.65	1.8	ng/L	1.68		98.2	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.50	1.8	ng/L	1.83		81.9	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.47	1.8	ng/L	1.83		80.0	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.81	1.8	ng/L	1.74		104	50-150			
Perfluoropentanesulfonic acid (PFPeS)	1.50	1.8	ng/L	1.72		87.1	50-150			
Perfluoroundecanoic acid (PFUnA)	1.84	1.8	ng/L	1.83		100	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.60	1.8	ng/L	1.83		87.2	50-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B353117 - EPA 533										
LCS (B353117-BS1)				Prepared: 09/27/23 Analyzed: 09/28/23						
Perfluoroheptanoic acid (PFHpA)	1.80	1.8	ng/L	1.83		98.2	50-150			
Perfluorooctanoic acid (PFOA)	2.08	1.8	ng/L	1.83		114	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.37	1.8	ng/L	1.70		80.6	50-150			
Perfluorononanoic acid (PFNA)	1.79	1.8	ng/L	1.83		97.8	50-150			
Surrogate: M2-4:2FTS	*26.7*		ng/L	34.4		77.5	50-200			
Surrogate: M2-8:2FTS	*34.7*		ng/L	35.2		98.5	50-200			
Surrogate: MPFBA	*33.7*		ng/L	36.7		91.9	50-200			
Surrogate: M3HFPO-DA	*31.0*		ng/L	36.7		84.5	50-200			
Surrogate: M6PFDA	*33.2*		ng/L	36.7		90.5	50-200			
Surrogate: M3PFBS	*31.1*		ng/L	34.2		91.0	50-200			
Surrogate: M7PFUnA	*31.6*		ng/L	36.7		86.2	50-200			
Surrogate: M2-6:2FTS	*58.7*		ng/L	34.9		168	50-200			
Surrogate: M5PFPeA	*33.9*		ng/L	36.7		92.4	50-200			
Surrogate: M5PFHxA	*31.0*		ng/L	36.7		84.7	50-200			
Surrogate: M3PFHxS	*30.4*		ng/L	34.7		87.6	50-200			
Surrogate: M4PFHpA	*32.0*		ng/L	36.7		87.4	50-200			
Surrogate: M8PFOA	*33.7*		ng/L	36.7		92.0	50-200			
Surrogate: M8PFOS	*33.7*		ng/L	35.2		95.7	50-200			
Surrogate: M9PFNA	*32.9*		ng/L	36.7		89.6	50-200			
Surrogate: MPFDoA	*31.4*		ng/L	36.7		85.8	50-200			
LCS Dup (B353117-BSD1)				Prepared: 09/27/23 Analyzed: 09/28/23						
Perfluorobutanoic acid (PFBA)	1.93	1.8	ng/L	1.84		104	50-150	1.07	50	
Perfluorobutanesulfonic acid (PFBS)	1.54	1.8	ng/L	1.63		94.4	50-150	2.23	50	
Perfluoropentanoic acid (PFPeA)	1.73	1.8	ng/L	1.84		94.0	50-150	2.57	50	
Perfluorohexanoic acid (PFHxA)	1.77	1.8	ng/L	1.84		96.0	50-150	0.241	50	
11Cl-PF3OUdS (F53B Major)	1.42	1.8	ng/L	1.74		81.9	50-150	6.64	50	
9Cl-PF3ONS (F53B Minor)	1.30	1.8	ng/L	1.72		75.6	50-150	0.107	50	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.37	1.8	ng/L	1.74		79.1	50-150	0.310	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.69	1.8	ng/L	1.84		91.8	50-150	4.59	50	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.57	1.8	ng/L	1.77		88.9	50-150	9.32	50	
Perfluorodecanoic acid (PFDA)	1.78	1.8	ng/L	1.84		96.6	50-150	22.0	50	
Perfluorododecanoic acid (PFDoA)	1.68	1.8	ng/L	1.84		91.1	50-150	4.58	50	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.60	1.8	ng/L	1.64		97.3	50-150	2.07	50	
Perfluoroheptanesulfonic acid (PFHpS)	1.63	1.8	ng/L	1.76		92.8	50-150	1.69	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.46	1.8	ng/L	1.72		84.5	50-150	9.42	50	
Perfluorohexanesulfonic acid (PFHxS)	1.58	1.8	ng/L	1.69		93.4	50-150	4.43	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	1.53	1.8	ng/L	1.84		82.8	50-150	1.68	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.40	1.8	ng/L	1.84		75.9	50-150	4.70	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.79	1.8	ng/L	1.75		102	50-150	1.17	50	
Perfluoropentanesulfonic acid (PFPeS)	1.55	1.8	ng/L	1.73		89.3	50-150	3.11	50	
Perfluoroundecanoic acid (PFUnA)	1.65	1.8	ng/L	1.84		89.6	50-150	10.9	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.58	1.8	ng/L	1.84		85.5	50-150	1.38	50	
Perfluoroheptanoic acid (PFHpA)	1.77	1.8	ng/L	1.84		96.2	50-150	1.51	50	
Perfluorooctanoic acid (PFOA)	2.19	1.8	ng/L	1.84		119	50-150	5.16	50	
Perfluorooctanesulfonic acid (PFOS)	1.42	1.8	ng/L	1.70		83.5	50-150	4.01	50	
Perfluorononanoic acid (PFNA)	2.12	1.8	ng/L	1.84		115	50-150	16.8	50	
Surrogate: M2-4:2FTS	*26.1*		ng/L	34.6		75.4	50-200			
Surrogate: M2-8:2FTS	*31.8*		ng/L	35.4		90.0	50-200			
Surrogate: MPFBA	*33.4*		ng/L	36.9		90.5	50-200			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B353117 - EPA 533										
LCS Dup (B353117-BSD1)				Prepared: 09/27/23 Analyzed: 09/28/23						
Surrogate: M3HFPO-DA	*30.1*		ng/L	36.9		81.6	50-200			
Surrogate: M6PFDA	*31.4*		ng/L	36.9		85.3	50-200			
Surrogate: M3PFBS	*29.0*		ng/L	34.3		84.4	50-200			
Surrogate: M7PFUnA	*31.9*		ng/L	36.9		86.6	50-200			
Surrogate: M2-6:2FTS	*46.1*		ng/L	35.0		131	50-200			
Surrogate: M5PFPeA	*33.4*		ng/L	36.9		90.5	50-200			
Surrogate: M5PFHxA	*30.8*		ng/L	36.9		83.6	50-200			
Surrogate: M3PFHxS	*29.4*		ng/L	34.9		84.1	50-200			
Surrogate: M4PFHpA	*31.0*		ng/L	36.9		84.0	50-200			
Surrogate: M8PFOA	*33.4*		ng/L	36.9		90.5	50-200			
Surrogate: M8PFOS	*28.9*		ng/L	35.3		81.9	50-200			
Surrogate: M9PFNA	*29.1*		ng/L	36.9		78.9	50-200			
Surrogate: MPFDoA	*30.9*		ng/L	36.9		83.8	50-200			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA,CT
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA,CT
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA,CT
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA,CT
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA,CT
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoropentanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA,CT
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA,CT

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2024
ME	State of Maine	MA00100	06/9/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024

23I1864

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: [X] Yes ☐ No

Pace

Workorder: 70270203 Workorder Name: 1,4 DIOXANE/533 9/12
Owner Received Date: 9/12/2023 Results Requested By: 9/26/2023

Report To

Jennifer Aracri
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone 516-370-6016

Subcontract To

Pace New England
39 Spruce St.
East Longmeadow, MA 01028
Phone (413)525-2332

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other						PFAS by 533												LAB USE ONLY
1	N-09809	PS	9/12/2023 10:02	70270203001	Drinking	1						X												
2	N-09809 FB	PS	9/12/2023 10:02	70270203002	Drinking	1						X												
3	GAC-09809	PS	9/12/2023 10:11	70270203003	Drinking	1						X												
4	GAC-09809 FB	PS	9/12/2023 10:11	70270203004	Drinking	1						X												
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	MS MA(AN)	9/14/23 1700	MS MA(AN)	9/14 1700
2	MS MA(AN)	9/14 2000	Anthony Green	SEP 14 2023 2050
3	Anthony Green	9/15/23 0145	[illegible]	9/15/23 0145

Comments

25 Compound List

Cooler Temperature on Receipt °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

[illegible] 9/15/23 ~~0345~~ 0515 SD

[illegible] 9/15/23 07:00

[illegible] 9/15/23 08:55

[illegible] 9-15-23 0255 3.0°C

Pace Analytical Services	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Pace - Melville

Project PFAS 533 - JA

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location 1,4 DIOXANE / 533 9/12

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time AAM / 9-15-23 / 0855

Back-Sheet By / Date / Time AAM / 9-15-23 / 0935

Temperature Method Temp. Gun # 5

Temp ✓ < 6° C Actual Temperature 3.0°C

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☐
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

Sample	Soils Jars (Circle Amb/Clear)				Ambers							Plastics											VOA Vials					Other / Fill in					
					1 Liter			250mL			100mL	1 Liter		500mL		250mL																	
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact					
1																					2												
2																					1												
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Qualtrax ID: 120836