Jericho Water District PWS ID No. NY2902831 MCL Deferral for 1,4-Dioxane Quarterly Report – Second Quarter 2023

#### Introduction

On behalf of the Jericho Water District (JWD 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. JWD was granted a deferral because it has been proactive in its efforts to establish and implement an action plan for managing the above-referenced compounds.

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. Contractors and water suppliers, locally and nationwide, have been impacted by these issues in completing both small-scale and large-scale projects. 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 responsibilities. This increased workload has led to longer regulatory review times of engineering reports, detailed design plans, and specifications. In many cases, these factors, which are out of the District's control, have caused delays in obtaining final regulatory approval, commencing construction, procuring equipment and necessary components, and conforming to the construction schedules proposed in the District's original application for a deferral.

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. The wide reach of the impact of supply chain issues and delays was not known at the time of the original compliance deferrals and, as such, 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 our MCL compliance deadline to August 25, 2023.

Despite the challenges of the current supply chain along with the ever-changing regulatory environment, the District has worked tirelessly to preserve the quality of its drinking water. There are currently four different treatment plants being constructed specifically for the removal of 1,4-dioxane from seven District wells. The combined cost of these projects is greater than \$50 million and this does not include the other construction projects that the District currently has ongoing to enhance other components of its water infrastructure.

The District's goal, as always, is to provide an adequate supply of potable water to its community and will continue to move forward on these projects to further that goal.

The following is a report describing JWD's progress towards maintaining the highest quality of water for our customers and meeting the deadlines set forth in the deferral approval. Updated schedules for each project are contained in Attachment A.

#### **Corrective Action Plan Milestones**

#### Wells 9 and 14

Construction of the new treatment plant is nearing completion. All major equipment has been installed and powered. Startup and testing of the new treatment systems will begin soon. It is anticipated the facility will be operational in late summer 2023.

Although it has been granted a deferral, JWD has been able to minimize the usage of these wells during the period of this report.

#### Wells 20 and 21

This project is currently in the construction phase. The NCDH and NYSDOH issued approval of the engineering report during August and September 2022 and of the design plans in June and July 2023. Site work has commenced and the granular activated carbon (GAC) equipment has been installed. The existing facility with GAC will operate throughout the summer. The final completion is scheduled for February 2024 although, due to electrical equipment supply chain delays, this may not be possible. The District is working with its contractor, vendors, and manufacturers to bring the project to completion as quickly as possible to be able to return the site to operation prior to peak pumping season 2024.

Even though it has been granted a deferral, the JWD continues to monitor and minimize the usage of these wells to the greatest extent practicable while meeting system demands. JWD will continue to monitor the 1,4-dioxane concentrations and work to minimize future run times of the wells where the concentration exceeds the MCL.

#### Well 22

This project is currently in the pre-construction phase. The NCDH and NYSDOH issued approval of the engineering report in October 2022. The District is currently responding to comments on the contract documents from the NCDH and NYSDOH. The construction of the AOP facility is expected to begin no sooner than late August 2023 at which point the well will be removed from service for the duration of the contract. Construction is anticipated to be completed and the facility returned to service prior to the end of 2024.

Although it has been granted a deferral, JWD continues to monitor and minimize the usage of this well to the greatest extent practicable while meeting system demands.

## Wells 25 and 26 (Kirby Lane Facility)

This project is currently in the construction phase. The District received NCDH approval of the engineering report in September 2021. The District received NCDH approval of the detailed design documents on July 12, 2022 and NYSDOH approval of the engineering report and detailed design documents on July 25, 2022. Construction has been progressing on-site. The building interior work is ongoing for all construction trades. Exterior site piping work has been mostly completed. The electrical contractor has received the electrical equipment necessary to connect the site to permanent power. The District expects to have the full treatment plant operational by late summer of 2023.

Although it has been granted a deferral, JWD continues to monitor and minimize the usage of these wells to the greatest extent practicable while meeting system demands. JWD will continue to monitor the 1,4-dioxane concentrations and work to minimize future run times of the wells where the concentration exceeds the MCL.

#### **Public Notification**

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

# **Analytical Sampling**

Sample results for the wells for which deferrals were granted (Wells 9, 14, 20, 21, 22, 25, and 26) taken during the second quarter of 2023 are contained in the below table. Full laboratory reports for each sample are contained in Attachment B.

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

Wall		Date	
Well	April 2023	May 2023	June 2023
Well 9 (N-04245)	NS	NS	In Progress
Well 14 (N-06651)	NS	NS	In Progress
Well 20 (N-10149)	NS	1.9	NS
Well 21 (N-12795)	NS	NS	2.3
Well 22 (N-07781)	NS	NS	In Progress
Well 25 (N-08355)	10.0; 10.3	NS	NS
Well 26 (N-13119)	1.9	NS	NS

NS – Not Sampled

#### Conclusion

As demonstrated above, JWD 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 Superintendent Peter Logan at 516-921-8280 or visit the website, www.jerichowater.org.

Very truly yours,

Board of Commissioners Jericho Water District

#### Enclosures

cc:

K. Wheeler (NYSDOH)

B. Rogers (NYSDOH)

W. Provoncha (NCDH)

P. Young (NCDH)

R. Putnam (NCDH)

P. Logan (JWD)

W. Merklin (D&B)

M. Savarese (D&B)

L. Ortiz (D&B)

P. Connell (D&B)

# ATTACHMENT A

**Project Schedules Associated with MCL Deferral** 

Jericho Water District Wells 9 and 14 MCL Deferral **AOP Project Schedule** Quarterly Report - Q2 2023 Task Name 2022 2023 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 1 Qtr 4 Pilot Test and Planning (Complete) **Engineering Report (Complete)** NCDH and NYSDOH Review of Engineering Report (Complete) Detailed Design (Complete) NCDH and NYSDOH Review of Contract Documents (Complete) Bidding (Complete); Construction (In Progress) Startup and Testing

Jericho Water District Wells 20 and 21 **AOP Project Schedule** MCL Deferral Quarterly Report - Q2 2023 Task Name 2022 2023 2024 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Otr 1 Pilot Test and Planning (Complete) **Engineering Report (Complete)** NCDH and NYSDOH Review of Engineering Report (Complete) Detailed Design (Complete) NCDH and NYSDOH Review of Contract Documents (Complete) Bidding and Award of Contracts (Complete) Construction (In Progress) Startup and Testing

Jericho Water District MCL Deferral Quarterly Report - Q2 2023

# Well 22 AOP Project Schedule

Task Name	2022 Qtr 1   Qtr 2   Qtr 3   Q	2023 Otr 4 Otr 1 Otr 2 O	2024 tr 3   Qtr 4   Qtr 1   Qtr	2   Qtr 3   C	2025 Qtr 4
Pilot Test and Planning (Complete)					
Engineering Report (Complete)					
NCDH and NYSDOH Review/Approval of Engineering Report (Complete)					
Detailed Design (Complete)					
NCDH and NYSDOH Review of Contract Documents (In Progress)					
Bidding (Complete) and Construction					
Startup and Testing					

Jericho Water District MCL Deferral Quarterly Report - Q2 2023 Wells 25 and 26 AOP Project Schedule

ask Name	2022 Qtr 1	Qtr	. 2	Qtr 3	(	Qtr 4	2023 Qtr 1		Qtr 2	1	Qtr 3	(	Qtr 4	2024 Qtr 1
Pilot Test (Complete)	Qu. I	, qu		<u> </u>		<u> </u>	<u> </u>	<u> </u>	Qu L		Qti 3			<u> </u>
Engineering Report (Complete)														
NCDH and NYSDOH Review of Engineering Report (Complete)														
Detailed Design (Complete)														
NCDH and NYSDOH Review of Contract Documents (Complete)														
Bidding and Construction (In Progress)														
Startup and Testing														

# 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

Type: Drinking Water
Origin: Raw Well
Routine

**Sample Information:** 

Pace

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

Jericho Water District 125 Convent Rd. Syosset, NY 11791 Lab No. : 70254255001 Client Sample ID.: N-13119

Attn To: Peter Logan Federal ID: 2902831

Collected: 04/26/2023 10:32 AM Point N-13119
Received: 04/26/2023 12:38 PM Location Well 26

Collected By CLIENT Sample Comments:
RUN TO WASTE
2 MIN

Analytical Method: ASTM D7237	7-10						
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Cyanide, Free	<10.0		1	ug/L	200	05/01/2023 6:35 PM	001 BP3C1/1
Analytical Method: EPA 180.1							
Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Turbidity	2.8		1	NTU	5	04/27/2023 11:53	001 BP1U1/1
Analytical Method: EPA 200.7							
Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Ca Hardness as CaCO3 (SM 2340B	18.2		1	mg/L		04/29/2023 1:49 AM	001 BP4N1/1
Calcium	7.3		1	mg/L		04/29/2023 1:49 AM	001 BP4N1/1
Iron	0.15		1	mg/L	0.3	04/29/2023 1:49 AM	001 BP4N1/1
Magnesium	2.7		1	mg/L		04/29/2023 1:49 AM	001 BP4N1/1
Manganese	< 0.010		1	mg/L	0.3	04/29/2023 1:49 AM	001 BP4N1/1
Sodium	16.4		1	mg/L		04/29/2023 1:49 AM	001 BP4N1/1
Tot Hardness asCaCO3 (SM 2340B	29.3	N3	1	mg/L		04/29/2023 1:49 AM	001 BP4N1/1
Zinc	<0.020		1	mg/L	5	04/29/2023 1:49 AM	001 BP4N1/1
Analytical Method:EPA 200.8							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Antimony	<0.40		1	ug/L	6	05/02/2023 4:18 PM	001 BP4N1/1
Arsenic	<1.0		1	ug/L	10	05/02/2023 4:18 PM	001 BP4N1/1
Barium	0.0056		1	mg/L	2	05/02/2023 4:18 PM	001 BP4N1/1
Beryllium	< 0.30		1	ug/L	4	05/02/2023 4:18 PM	001 BP4N1/1
Cadmium	<1.0		1	ug/L	5	05/02/2023 4:18 PM	001 BP4N1/1
Chromium	< 0.0070		1	mg/L	0.1	05/02/2023 4:18 PM	001 BP4N1/1
Copper	<0.0020		1	mg/L	1.3	05/02/2023 4:18 PM	001 BP4N1/1
Lead	<1.0		1	ug/L	15	05/02/2023 4:18 PM	001 BP4N1/1
Mercury	<0.20		1	ug/L	2	05/02/2023 4:18 PM	001 BP4N1/1
Nickel	< 0.00050		1	mg/L		05/02/2023 4:18 PM	001 BP4N1/1
Selenium	<2.0		1	ug/L	50	05/02/2023 4:18 PM	001 BP4N1/1
Silver	< 0.0010		1	mg/L	0.1	05/02/2023 4:18 PM	001 BP4N1/1
Thallium	<0.30		1	ug/L	2	05/02/2023 4:18 PM	001 BP4N1/1
Analytical Method: EPA 300.0							
Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:

#### Qualifiers:

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 Δracri

Test results meet the requirements of NELAC unless otherwise noted.

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



Pace\*
575 Broad Hollow Road, Melville, NY 11747

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

Client Sample ID.: N-13119

Lab No.: 70254255001

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

TEL: (516) 370-6000 FAX: (516) 886-5526 <u>www.pacelabs.com</u> **Jericho Water District** 

125 Convent Rd. Syosset, NY 11791 Attn To: Peter Logan Federal ID: 2902831

Collected:

Received:

04/26/2023 10:32 AM Point N-13119 04/26/2023 12:38 PM Location Well 26

Collected By CLIENT
Sample Comments:
RUN TO WASTE
2 MIN

2 1/1114							
Chloride	13.3		1	mg/L	250	05/08/2023 6:26 PM	001 BP1U1/1
Fluoride	<0.10		1	mg/L	2.2	05/08/2023 6:26 PM	001 BP1U1/1
Sulfate	6.5		1	mg/L	250	05/08/2023 6:26 PM	001 BP1U1/1
Analytical Method:EPA 353	3.2						
Parameter(s)	<u>Results</u>	Qualifier	D.F.	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	Container:
Nitrate as N	2.5		5	mg/L	10	04/26/2023 11:33	001 BP1U1/1
Nitrate-Nitrite (as N)	2.5		5	mg/L		04/26/2023 11:33	001 BP1U1/1
Analytical Method:EPA 353	3.2						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	04/26/2023 9:45 PM	001 BP1U1/1
Analytical Method: Field Me	thod						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Field Temperature	14.1	N3	1	deg C		04/26/2023 10:32	001 BP3C1/1
Field pH	6.71	N3	1	Std. Units		04/26/2023 10:32	001 BP3C1/1
Analytical Method:SM22 21	120B						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Apparent Color	<5.0		1	units		04/27/2023 1:45 PM	001 BP1U1/1
pH	7.2		1	Std. Units		04/27/2023 1:45 PM	001 BP1U1/1
Analytical Method: SM22 21	150B						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Odor @ 60 Degrees C	No odor observed		1		3	04/26/2023 6:04 PM	001 AG2U1/1
Analytical Method:SM22 23	320B						
Parameter(s)	<u>Results</u>	Qualifier	D.F.	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	Container:
Alkalinity, Total as CaCO3	38.2		1	mg/L		05/01/2023 11:37	001 BP1U1/1
Analytical Method:SM22 23	330 LSI						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Corrosivity	-2.47		1			05/04/2023 3:16 PM	001 BP1U1/1

#### Qualifiers:

See qualifiers page for additional qualifier definitions.

Test results meet the requirements of NELAC

unless otherwise noted.

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Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

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

Jericho Water District 125 Convent Rd. Syosset, NY 11791 Lab No. : 70254255001 Client Sample ID.: N-13119

Attn To: Peter Logan Federal ID: 2902831

Collected:

Received:

04/26/2023 10:32 AM Point N-13119 04/26/2023 12:38 PM Location Well 26

Collected By CLIENT Sample Comments:
RUN TO WASTE
2 MIN

Analytical Method:SM22 254	0C						
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Total Dissolved Solids	94.0	D6	1	mg/L		05/02/2023 7:15 PM	001 BP1U1/1
Analytical Method:SM22 450	0 NH3 H						
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Nitrogen, Ammonia	<0.10		1	mg/L		05/02/2023 1:01 PM	001 BP1U1/1
Analytical Method:SM22 554	0C	Prep Method:	SM22 55	40C	Prep Date:	. 04/27/2023 2:05 PM	
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
LAS Molecular Weight, g/mol	320		1			04/27/2023 2:19 PM	001 BP1U1/1
MBAS, Calculated as LAS	<0.080		1	mg/L		04/27/2023 2:19 PM	001 BP1U1/1

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U - Indicates the compound was analyzed for, but not detected See qualifiers page for additional qualifier definitions. Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

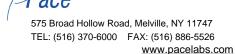
# **Laboratory Results**

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

Sample Information:
De: Drinking Water

Type: Drinking Water
Origin: Raw Well
Routine



Jericho Water District 125 Convent Rd. Syosset, NY 11791 Lab No. : 70254255002 Client Sample ID.: N-13119

Attn To: Peter Logan Federal ID: 2902831

Collected: 04/26/2023 11:00 AM Point N-13119 Received: 04/26/2023 12:38 PM Location Well 26

Collected By CLIENT Sample Comments: RUN TO WASTE 30 MIN

Analytical Method: EPA 522	]	Prep Method:	EPA 522		Prep Date: 04/28/2023 12:50			
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
1,4-Dioxane (p-Dioxane)	1.9*		1	ug/L	1	04/30/2023 11:24	002 AG2R1/1	
Surr: 1,4-Dioxane-d8 (S)	106%		1	%REC		04/30/2023 11:24	002 AG2R1/1	
Analytical Method:EPA 524.2								
Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,1,1-Trichloroethane	0.83		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,1,2-Trichloroethane	< 0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,1,2-Trichlorotrifluoroethane	< 0.50	N3	1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,1-Dichloroethane	2.2		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,1-Dichloroethene	2.0		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,1-Dichloropropene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,2,3-Trichlorobenzene	< 0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,2,3-Trichloropropane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,2-Dichlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,2-Dichloroethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,2-Dichloropropane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,3-Dichlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,3-Dichloropropane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
1,4-Dichlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
2,2-Dichloropropane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
2-Chlorotoluene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
4-Chlorotoluene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
Benzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
Bromobenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
Bromochloromethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
Bromodichloromethane	<0.50		1	ug/L		05/01/2023 4:32 PM	002 VG9C1/1	
Bromoform	<0.50		1	ug/L		05/01/2023 4:32 PM	002 VG9C1/1	
Bromomethane	<0.50	L1	1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
Carbon tetrachloride	0.61		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
Chlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	
Chlorodifluoromethane	1.9	N3	1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1	

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U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

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.

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

# **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

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

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

Jericho Water District 125 Convent Rd. Syosset, NY 11791 Lab No. : 70254255002 Client Sample ID.: N-13119

Attn To: Peter Logan Federal ID: 2902831

Collected:

Received:

30 MIN

04/26/2023 11:00 AM Point N-13119 04/26/2023 12:38 PM Location Well 26

Collected By CLIENT Sample Comments:
RUN TO WASTE

Chloroethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Chloroform	0.51		1	ug/L		05/01/2023 4:32 PM	002 VG9C1/1
Chloromethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Dibromochloromethane	<0.50		1	ug/L		05/01/2023 4:32 PM	002 VG9C1/1
Dibromomethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Dichlorodifluoromethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Ethylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Methyl-tert-butyl ether	<0.50	L1	1	ug/L	10	05/01/2023 4:32 PM	002 VG9C1/1
Methylene Chloride	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Styrene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Tetrachloroethene	1.0		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Toluene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Total Trihalomethanes (Calc.)	0.51		1	ug/L	80	05/01/2023 4:32 PM	002 VG9C1/1
Trichloroethene	6.7*		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Trichlorofluoromethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Vinyl chloride	<0.50		1	ug/L	2	05/01/2023 4:32 PM	002 VG9C1/1
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
m&p-Xylene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
n-Butylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
n-Propylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
o-Xylene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
p-Isopropyltoluene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
sec-Butylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
tert-Butylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Surr: 1,2-Dichlorobenzene-d4 (S)	79%		1	%REC		05/01/2023 4:32 PM	002 VG9C1/1
Surr: 4-Bromofluorobenzene (S)	94%		1	%REC		05/01/2023 4:32 PM	002 VG9C1/1

#### 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.

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range



## **WorkOrder:**

70254255

# **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

Date Reported: 05/11/2023 page 6 of 36



## WorkOrder:

70254255

# **Additional Qualifiers**

- D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
- 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.

Date Reported: 05/11/2023 page 7 of 36



May 11, 2023

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

Project Location: IOC/PERC/1,4DIOX/PFAS/POC 4/26

Client Job Number:

Project Number: 70254255

Laboratory Work Order Number: 23E0106

Enclosed are results of analyses for samples as received by the laboratory on April 29, 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

PURCHASE ORDER NUMBER:

REPORT DATE: 5/11/2023

PROJECT NUMBER: 70254255

#### ANALYTICAL SUMMARY

23E0106 WORK ORDER NUMBER:

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

PROJECT LOCATION: IOC/PERC/1,4DIOX/PFAS/POC 4/26

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-13119	23E0106-01	Drinking Water		EPA 533	
N-13119 FB	23E0106-02	Field Blank		EPA 533	



#### CASE NARRATIVE SUMMARY

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

For PFAS 533: Source sample and field reagent blank appear to switched in the field. All laboratory labels were verified as accurate. Original results reported.

EPA 533

Qualifications:

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 B338971-BLK1

PF-17B

Extracted internal standard is outside of control limits. Insufficient sample volume for re-extraction.

Analyte & Samples(s) Qualified:

M6PFDA

23E0106-02[N-13119 FB]

M7PFUnA

23E0106-02[N-13119 FB]

M9PFNA

23E0106-02[N-13119 FB]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-8:2FTS

B338971-BS1, B338971-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

Meghan S. Kelley



Project Location: IOC/PERC/1,4DIOX/PFAS/POC Sample Description: Work Order: 23E0106

Date Received: 4/29/2023
Field Sample #: N-13119

Sampled: 4/26/2023 11:00

Sample ID: 23E0106-01

MPFDoA

		Semiv	olatile Organic Cor	npounds by - 1	LC/MS-MS				
		MCL/	SMCL				Date	Date/Time	
Analyte	Results	RL MAC	ORSG Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analys
Perfluorobutanoic acid (PFBA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8	_	1					
			ng/L			EPA 533	5/2/23	5/8/23 21:49	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8	_	1		EPA 533			JR2
Perfluoroundecanoic acid (PFUnA)			ng/L				5/2/23	5/8/23 21:49	
	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorooctanoic acid (PFOA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorononanoic acid (PFNA)	ND	1.8	ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Surrogates		% Recovery	Recovery Lim	its	Flag/Qual				
M2-4:2FTS		140	50-200					5/8/23 21:49	
M2-8:2FTS		168	50-200					5/8/23 21:49	
MPFBA		94.9	50-200					5/8/23 21:49	
M3HFPO-DA		100	50-200					5/8/23 21:49	
M6PFDA		77.5	50-200					5/8/23 21:49	
M3PFBS M7PFUnA		114	50-200					5/8/23 21:49 5/8/23 21:49	
M2-6:2FTS		78.5 188	50-200 50-200					5/8/23 21:49	
M5PFPeA		103	50-200					5/8/23 21:49	
M5PFHxA		79.5	50-200					5/8/23 21:49	
M3PFHxS		122	50-200					5/8/23 21:49	
M4PFHpA		78.8	50-200					5/8/23 21:49	
M8PFOA		85.7	50-200					5/8/23 21:49	
M8PFOS		101	50-200					5/8/23 21:49	
M9PFNA		73.3	50-200					5/8/23 21:49	
MDED. A		76.1	50.200					5/0/22 21 40	

5/8/23 21:49

50-200

76.1



Project Location: IOC/PERC/1,4DIOX/PFAS/POC Sample Description: Work Order: 23E0106

Date Received: 4/29/2023

**Field Sample #: N-13119 FB** Sampled: 4/26/2023 11:00

Sample ID: 23E0106-02
Sample Matrix: Field Blank

Sample Matrix: Field Blank		s	Semivolatile C	Organic Cor	npounds by - l	LC/MS-MS				
		1	MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	8.8	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoropentanoic acid (PFPeA)	6.6	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorohexanoic acid (PFHxA)	5.0	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoroheptanoic acid (PFHpA)	3.0	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorooctanoic acid (PFOA)	1.8	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Surrogates		% Reco	very Re	covery Limi	its	Flag/Qual				
M2-4:2FTS		59.0		50-200					5/8/23 21:57	
M2-8:2FTS		92.3		50-200					5/8/23 21:57	
MPFBA		83.5		50-200					5/8/23 21:57	
M3HFPO-DA		88.5		50-200					5/8/23 21:57	
M6PFDA			*	50-200		PF-17B			5/8/23 21:57	
M3PFBS		105		50-200					5/8/23 21:57	
M7PFUnA			*	50-200		PF-17B			5/8/23 21:57	
M2-6:2FTS		89.2		50-200					5/8/23 21:57	
M5PFPeA		86.7		50-200					5/8/23 21:57	
M5PFHxA		75.9		50-200					5/8/23 21:57	
M3PFHxS M4PFHpA		110 70.9		50-200 50-200					5/8/23 21:57 5/8/23 21:57	
M8PFOA		64.9		50-200					5/8/23 21:57	
M8PFOS		103		50-200					5/8/23 21:57	
M9PFNA			*	50-200		PF-17B			5/8/23 21:57	
MPFDoA		51.1		50-200		11-1/1			5/8/23 21:57	



# Sample Extraction Data

Prep Method: EPA 533 Analytical Method: EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E0106-01 [N-13119]	B338971	272	1.00	05/02/23
23E0106-02 [N-13119 FB]	B338971	277	1.00	05/02/23



#### 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 B338971 - EPA 533										
Blank (B338971-BLK1)				Prepared: 05	5/02/23 Analy	yzed: 05/08/2	.3			
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							
1Cl-PF3OUdS (F53B Major)	ND	1.8	ng/L							
Cl-PF3ONS (F53B Minor)	ND	1.8	ng/L							
,8-Dioxa-3H-perfluorononanoic acid	ND	1.8	ng/L							
ADONA) Jexafluoropropylene oxide dimer acid	ND	1.8	ng/L							
HFPO-DA)										
:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	ng/L							
erfluorodecanoic acid (PFDA)	ND	1.8	ng/L							
erfluorododecanoic acid (PFDoA)	ND	1.8	ng/L							
erfluoro(2-ethoxyethane)sulfonic acid PFEESA)	ND	1.8	ng/L							
erfluoroheptanesulfonic acid (PFHpS)	ND	1.8	ng/L							
:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8	ng/L							
erfluorohexanesulfonic acid (PFHxS)	ND	1.8	ng/L							
erfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	ng/L							
erfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	ng/L							
2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8	ng/L							
erfluoropetanesulfonic acid (PFPeS)	ND	1.8	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	1.8	ng/L							
Ionafluoro-3,6-dioxaheptanoic acid NFDHA)	ND	1.8	ng/L							
erfluoroheptanoic acid (PFHpA)	ND	1.8	ng/L							
erfluorooctanoic acid (PFOA)	ND	1.8	ng/L							
erfluorooctanesulfonic acid (PFOS)	ND	1.8	ng/L							
erfluorononanoic acid (PFNA)	ND	1.8	ng/L							
urrogate: M2-4:2FTS	25.7		ng/L	33.7		76.2	50-200			
urrogate: M2-8:2FTS	71.0		ng/L	34.5		206 *	50-200			PF-17
urrogate: MPFBA	35.4		ng/L	36.0		98.5	50-200			
urrogate: M3HFPO-DA	40.0		ng/L	36.0		111	50-200			
urrogate: M6PFDA	37.7		ng/L	36.0		105	50-200			
Surrogate: M3PFBS	29.7		ng/L	33.5		88.5	50-200			
urrogate: M7PFUnA	34.3		ng/L	36.0		95.3	50-200			
urrogate: M2-6:2FTS	30.3		ng/L	34.2		88.6	50-200			
urrogate: M5PFPeA	36.6		ng/L	36.0		102	50-200			
urrogate: M5PFHxA	34.7		ng/L	36.0		96.3	50-200			
surrogate: M3PFHxS	33.2		ng/L	34.1		97.5	50-200			
surrogate: M4PFHpA	35.3		ng/L	36.0		98.0	50-200			
urrogate: M8PFOA	37.8		ng/L	36.0		105	50-200			
surrogate: M8PFOS	28.2		ng/L	34.5		81.7	50-200			
urrogate: M9PFNA	34.8		ng/L	36.0		96.7	50-200			
urrogate: MPFDoA	34.4		ng/L	36.0		95.7	50-200			
CS (B338971-BS1)					5/02/23 Analy					
Perfluorobutanoic acid (PFBA)	1.82	1.8	ng/L	1.85		98.6	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.48	1.8	ng/L	1.64		90.5	50-150			
Perfluoropentanoic acid (PFPeA)	1.51	1.8	ng/L	1.85		81.7	50-150			
Perfluorohexanoic acid (PFHxA)	1.56	1.8	ng/L	1.85		84.4	50-150			
1Cl-PF3OUdS (F53B Major)	1.46	1.8	ng/L	1.74		83.8	50-150			
Cl-PF3ONS (F53B Minor)	1.47	1.8	ng/L	1.72		85.2	50-150			



## 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 B338971 - EPA 533										
CS (B338971-BS1)				Prepared: 05	/02/23 Analy	zed: 05/08/2	23			
,8-Dioxa-3H-perfluorononanoic acid ADONA)	1.54	1.8	ng/L	1.74		88.4	50-150			
lexafluoropropylene oxide dimer acid HFPO-DA)	1.55	1.8	ng/L	1.85		83.7	50-150			
:2 Fluorotelomersulfonic acid (8:2FTS A)	1.50	1.8	ng/L	1.78		84.5	50-150			
erfluorodecanoic acid (PFDA)	1.42	1.8	ng/L	1.85		76.7	50-150			
erfluorododecanoic acid (PFDoA)	1.38	1.8	ng/L	1.85		74.6	50-150			
erfluoro(2-ethoxyethane)sulfonic acid PFEESA)	1.33	1.8	ng/L	1.65		81.0	50-150			
erfluoroheptanesulfonic acid (PFHpS)	1.70	1.8	ng/L	1.77		96.5	50-150			
:2 Fluorotelomersulfonic acid (4:2FTS A)	1.48	1.8	ng/L	1.73		85.6	50-150			
erfluorohexanesulfonic acid (PFHxS)	1.44	1.8	ng/L	1.69		84.9	50-150			
erfluoro-4-oxapentanoic acid (PFMPA)	1.45	1.8	ng/L	1.85		78.4	50-150			
erfluoro-5-oxahexanoic acid (PFMBA)	1.41	1.8	ng/L	1.85		76.3	50-150			
:2 Fluorotelomersulfonic acid (6:2FTS A)	1.29	1.8	ng/L	1.76		73.4	50-150			
erfluoropetanesulfonic acid (PFPeS)	1.37	1.8	ng/L	1.74		78.8	50-150			
erfluoroundecanoic acid (PFUnA)	1.58	1.8	ng/L	1.85		85.3	50-150			
onafluoro-3,6-dioxaheptanoic acid NFDHA)	1.47	1.8	ng/L	1.85		79.7	50-150			
erfluoroheptanoic acid (PFHpA)	1.66	1.8	ng/L	1.85		89.7	50-150			
erfluorooctanoic acid (PFOA)	1.35	1.8	ng/L	1.85		72.9	50-150			
erfluorooctanesulfonic acid (PFOS)	1.74	1.8	ng/L	1.71		102	50-150			
erfluorononanoic acid (PFNA)	1.51	1.8	ng/L	1.85		81.9	50-150			
urrogate: M2-4:2FTS	27.0		ng/L	34.7		77.9	50-200			
urrogate: M2-8:2FTS	87.3		ng/L	35.5		246 *	50-200			S-29
urrogate: MPFBA	33.5		ng/L	37.0		90.5	50-200			
urrogate: M3HFPO-DA	32.2		ng/L	37.0		86.9	50-200			
urrogate: M6PFDA	28.5		ng/L	37.0		77.1	50-200			
urrogate: M3PFBS	32.0		ng/L	34.5		92.7	50-200			
urrogate: M7PFUnA	28.1		ng/L	37.0		76.1	50-200			
urrogate: M2-6:2FTS	36.0		ng/L	35.2		102	50-200			
urrogate: M5PFPeA	34.3		ng/L	37.0		92.7	50-200			
urrogate: M5PFHxA	29.4		ng/L	37.0		79.5	50-200			
urrogate: M3PFHxS	35.5		ng/L	35.1		101	50-200			
urrogate: M4PFHpA	29.3		ng/L	37.0		79.2	50-200			
urrogate: M8PFOA	32.2		ng/L	37.0		87.1	50-200			
urrogate: M8PFOS	29.8		ng/L	35.5		84.0	50-200			
urrogate: M9PFNA	28.0		ng/L	37.0		75.6	50-200			
urrogate: MPFDoA	29.2		ng/L	37.0		78.9	50-200			
CS Dup (B338971-BSD1)				•	/02/23 Analy	zed: 05/08/2				
erfluorobutanoic acid (PFBA)	2.04	1.8	ng/L	1.82		112	50-150	11.0	50	
erfluorobutanesulfonic acid (PFBS)	1.58	1.8	ng/L	1.61		98.6	50-150	6.77	50	
erfluoropentanoic acid (PFPeA)	1.76	1.8	ng/L	1.82		96.7	50-150	14.9	50	
erfluorohexanoic acid (PFHxA)	1.82	1.8	ng/L	1.82		100	50-150	15.1	50	
Cl-PF3OUdS (F53B Major)	1.27	1.8	ng/L	1.71		74.3	50-150	13.9	50	
Cl-PF3ONS (F53B Minor)	1.62	1.8	ng/L	1.69		95.5	50-150	9.57	50	
8-Dioxa-3H-perfluorononanoic acid ADONA)	1.80	1.8	ng/L	1.71		105	50-150	15.6	50	
exafluoropropylene oxide dimer acid HFPO-DA)	1.72	1.8	ng/L	1.82		94.9	50-150	10.7	50	
:2 Fluorotelomersulfonic acid (8:2FTS A)	1.64	1.8	ng/L	1.74		93.8	50-150	8.65	50	
erfluorodecanoic acid (PFDA)	1.84	1.8	ng/L	1.82		102	50-150	26.1	50	
erfluorododecanoic acid (PFDoA)	1.58	1.8	ng/L	1.82		86.8	50-150	13.2	50	



#### 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
eatch B338971 - EPA 533										
.CS Dup (B338971-BSD1)				Prepared: 05	5/02/23 Analy	yzed: 05/08/2	23			
Perfluoro(2-ethoxyethane)sulfonic acid PFEESA)	1.42	1.8	ng/L	1.62		87.9	50-150	6.27	50	
Perfluoroheptanesulfonic acid (PFHpS)	1.49	1.8	ng/L	1.73		86.0	50-150	13.3	50	
:2 Fluorotelomersulfonic acid (4:2FTS A)	1.59	1.8	ng/L	1.70		93.8	50-150	7.25	50	
Perfluorohexanesulfonic acid (PFHxS)	1.31	1.8	ng/L	1.66		78.8	50-150	9.39	50	
erfluoro-4-oxapentanoic acid (PFMPA)	1.58	1.8	ng/L	1.82		87.0	50-150	8.53	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.50	1.8	ng/L	1.82		82.7	50-150	6.18	50	
:2 Fluorotelomersulfonic acid (6:2FTS A)	1.55	1.8	ng/L	1.72		89.9	50-150	18.3	50	
Perfluoropetanesulfonic acid (PFPeS)	1.43	1.8	ng/L	1.71		84.0	50-150	4.50	50	
Perfluoroundecanoic acid (PFUnA)	1.89	1.8	ng/L	1.82		104	50-150	18.1	50	
NFDHA)	1.67	1.8	ng/L	1.82		91.9	50-150	12.4	50	
erfluoroheptanoic acid (PFHpA)	1.96	1.8	ng/L	1.82		108	50-150	16.4	50	
erfluorooctanoic acid (PFOA)	1.86	1.8	ng/L	1.82		102	50-150	31.8	50	
erfluorooctanesulfonic acid (PFOS)	1.69	1.8	ng/L	1.68		101	50-150	2.88	50	
erfluorononanoic acid (PFNA)	1.92	1.8	ng/L	1.82		106	50-150	23.5	50	
urrogate: M2-4:2FTS	35.4		ng/L	34.1		104	50-200			
Surrogate: M2-8:2FTS	131		ng/L	34.9		375 *	50-200			S-29
urrogate: MPFBA	36.4		ng/L	36.3		100	50-200			
urrogate: M3HFPO-DA	38.3		ng/L	36.3		106	50-200			
surrogate: M6PFDA	39.6		ng/L	36.3		109	50-200			
surrogate: M3PFBS	40.1		ng/L	33.8		118	50-200			
urrogate: M7PFUnA	35.3		ng/L	36.3		97.1	50-200			
surrogate: M2-6:2FTS	42.7		ng/L	34.5		124	50-200			
urrogate: M5PFPeA	37.6		ng/L	36.3		103	50-200			
urrogate: M5PFHxA	35.2		ng/L	36.3		96.9	50-200			
urrogate: M3PFHxS	44.1		ng/L	34.4		128	50-200			
urrogate: M4PFHpA	35.0		ng/L	36.3		96.4	50-200			
Surrogate: M8PFOA	36.1		ng/L	36.3		99.4	50-200			
Surrogate: M8PFOS	42.1		ng/L	34.8		121	50-200			
Surrogate: M9PFNA	34.7		ng/L	36.3		95.6	50-200			
Surrogate: MPFDoA	35.9		ng/L	36.3		98.8	50-200			



## FLAG/QUALIFIER SUMMARY

	QC result is outside of established filmits.
†	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.
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.
PF-17B	Extracted internal standard is outside of control limits. Insufficient sample volume for re-extraction.
S-29	Extracted Internal Standard is outside of control limits.



## CERTIFICATIONS

## Certified Analyses included in this Report

Perfluorononanoic acid (PFNA)

**Analyte** Certifications

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

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

Code	Description	Number	Expires
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	06/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023

NH,NY,VT-DW,ME,NJ,PA

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Internal Transfer Chain of Custody

Face Analytical www.pacelabs.com	Results Requested By: 5/10/2023	A councested Analysis	LAB USE ONLY				Comments		nd List		Samples Intact Y or N
NY X Voc	4/							!	25 Compound List		Y or N
State Of Origin: NY Cert Needed:	73 18	PFAS by 533.		×	×			Date/Time	40012		Received on Ice
Samples Pre-Logged into eCOC.	Workorder Name: IOC/PERC/1,4DIOX/PFAS/POC 4/26	ngland t. sadow, MA 01028 525-2332	Collect Date/Time Lab.ID Matrix	4/26/2023 11:00 70254255002 Drinking 1	4/26/2023 11:00 70254255003 Drinking 1				4/38/13/8 /WWW		Custody Seal Y or N
	Workorder: 70254255 Workorder Name	Jennifer Aracri Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040	Sample Type	N-13119 PS	2 N-13119 FB PS 4/26	5		Itansfers Kelegsed By	2 June Vice Ct	8	Cooler Temperature on Receipt 2 0°C

\*\*\*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.

Page 1 of 1

FMT-ALL-C-002rev.00 24March2009

DELIVERED

# Saturday

4/29/2023 at 9:34 am

Signed for by: L.AROLA

#### DELIVERY STATUS

Delivered 🚱



647678494058

#### FROM

MELVILLE, NY US

Label Created 4/28/2023 2:56 PM

#### PACKAGE RECEIVED BY FEDEX

MELVILLE, NY 4/28/2023 5:33 PM

#### IN TRANSIT

WINDSOR LOCKS, CT 4/29/2023 8:27 AM

#### OUT FOR DELIVERY

WINDSOR LOCKS, CT 4/29/2023 8:38 AM

## DELIVERED

EAST LONGMEADOW, MA US

Delivered 4/29/2023 at 9:34 AM

View travel history

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL

MORE OPTIONS

Manage Delivery

**SUBMIT** 

FIAA-LUIAL-FECIA-OOODAOT PAULDIC VECEIAIUR CHECKIOS T-TS-EATO

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

# 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



Client	PUCC			***************************************	<del></del> -					True	Fals
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1L 500 mL 250 mL Other 160z 80z 40z 20z Col/Bac Flashpo Plastic SOC Kit	Amber Plastic Amber Plastic Amber Clear Plastic Amber Clear	le) Ur		HNO3		COC Inclication of the Color of	uded: (Cr Ar ID	nalysis D	Sample Collecti Other Pres	on Date/Tir	
1L 500 mL 250 mL Other 160z 80z 40z 20z Col/Bac Flashpo Plastic SOC Kit	Amber Plastic Amber Plastic Amber Clear Plastic Amber Clear	le) Ur		HNO3		COC Inclication of the Color of	uded: (Cr Ar ID	nalysis D	Sample Collecti Other Pres	on Date/Tir	
1L 500 mL 250 mL Other 160z 80z 40z 20z Col/Bac Flashpo Plastic SOC Kit Perchlo Encore	Amber Plastic Amber Plastic Amber Clear Plastic Amber Clear	le) Ur		HNO3		COC Inclication of the Color of	uded: (Cr Ar ID	nalysis D	Sample Collecti Other Pres	on Date/Tir	
1L 500 mL 250 mL Other 160z 80z 40z 20z Col/Bac Flashpo Plastic SOC Kit	Amber Plastic Amber Plastic Amber Clear Plastic Amber Clear	le) Ur		HNO3	H2SO4	COC Inclication of the Color of	oles Prop	nalysis D	Sample Collecti Other Pres	on Date/Tir	





301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DOD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

Analytical Results Report For

Pace Analytical Services, Inc.-NY

Project <u>70254255</u>
Workorder <u>3300553</u>

Report ID 242738 on 5/9/2023

#### **Certificate of Analysis**

Enclosed are the analytical results for samples received by the laboratory on Apr 29, 2023.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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Recipient(s):

Tara Bernier - Pace Analytical Services, Inc.-NY Reporting - Pace Analytical Services, Inc.-NY

Sarah Leung

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

**Project Coordinator** 

(ALS Digital Signature)

**Project** 70254255 Workorder

3300553



# **Sample Summary**

Date Received Collection Company Lab ID Sample ID <u>Matrix</u> **Date Collected** Collector N-13119 04/26/2023 10:32 04/29/2023 08:46 CBC Collected By Client 3300553001 NY Potable Water

<u>Project</u> 70254255 <u>Workorder</u> 3300553



#### Reference

#### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra.
   Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not
  listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the
  incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

#### Standard Acronyms/Flags

- J Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND) above the MDL
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Practical Quantitation Limit for this Project
- ND Not Detected indicates that the analyte was Not Detected
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference
- LOD DoD Limit of Detection
- LOQ DoD Limit of Quantitation
- DL DoD Detection Limit
- I Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
- (S) Surrogate Compound
- NC Not Calculated
- \* Result outside of QC limits
- # Please reference the result in the Results Section for analyte-level flags.

<u>Project</u> 70254255 <u>Workorder</u> 3300553



		Project Notations
		Sample Notations
Lab ID	Sample ID	
		Result Notations
Notation Ref.		

<u>Project</u> 70254255 <u>Workorder</u> 3300553



### **Detected Results Summary**

Not applicable for this WO.

<u>Project</u> 70254255 <u>Workorder</u> 3300553 ALS

### Results

 Client Sample ID
 N-13119
 Collected
 04/26/2023 10:32

 Lab Sample ID
 3300553001
 Lab Receipt
 04/29/2023 08:46

### **WET CHEMISTRY**

<u>Compound</u>	Result	<u>Flag</u>	<u>Units</u>	RDL	MDL	<u>Method</u>	<u>Dilution</u>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Perchlorate	ND	ND	ua/L	4.0		EPA 314.0	1	05/05/2023 18:21	DMG	Α

**Project** 70254255 Workorder

3300553



### **Sample - Method Cross Reference Table**

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3300553001	N-13119	EPA 314.0	N/A	

70254255 3300553



### QUALITY CONTROL SAMPLES

### **WET CHEMISTRY**

QC Batch					_	,	Associated Sam	ples			
QC Batch 98 <u>Date</u> N/ <u>Tech.</u>	37266 A	Prep Method Analysis Metl	N/A nod EPA 3	314.0			553001	<u> </u>			
Matrix Spike		3664396	(MS)		33005520	001 (non-F	Project Sample)			For QC Batch	987266
		****NOTE - The Matrix Spike per								of calculating	
Matrix Spike Duplicate			(MSD)	iles. Illis le			Project Sample)	useu as	Sucii.	For QC Batch	987266
RESULTS			Result	Orig.	Spk_	Rec.					
Compound	CAS No		(ug/L)	<u>Result</u> (ug/L)	Added (ug/L)	<u>(%)</u>	Limits (%)	RPI	) Limit	<u>(%)</u>	Qualifiers
Perchlorate	14797-73-0		30.30	3.50	25	107	80 - 120				
Perchlorate	14797-73-0	MSD	30.40	3.50	25	107	80 - 120	RPD	0.03	(Max-15)	
Matrix Spike		3664399	(MS)		33010690	)03 (non-F	Project Sample)			For QC Batch	987266
		****NOTE - The								of calculating	
Matrix Spike Duplicate		Matrix Spike per 3664400		ries. This re			e and cannot be Project Sample)	used as	such.	For QC Batch	987266
RESULTS  Compound	CAS No		Result (ug/L)	Orig. Result	Spk Added	Rec. (%)	Limits (%)	RPI	D Limit	(%)	Qualifiers
Perchlorate	14797-73-0	MS	26.70	(ug/L) 0	(ug/L) 25	107	80 - 120	131 -	Lillie	<u>(70)</u>	Quamoro
Perchlorate	14797-73-0	MSD	26.70	0	25	405	00 100		0.06	(May 1E)	
						107	80 - 120	RPD	0.00	(Max-15)	
Method Blank		3664393	(MB)				/04/2023 11:17	RPD	0.00	For QC Batch	987266
Method Blank  RESULTS		3664393	s (MB)					מאא	0.00		987266
RESULTS			s (MB)		Crea	ted on <u>05</u> ,	/04/2023 11:17	מאא	0.00		
		3664393 <u>CAS No</u> 14797-73-0	,	LK		ted on <u>05.</u>		מאא	0.00		987266  Qualifiers
RESULTS  Compound  Perchlorate		<u>CAS No</u> 14797-73-0	Bl	LK	Crea	its	/04/2023 11:17 RDL 4.0	RPD	0.00	For QC Batch	Qualifiers ND
RESULTS  Compound Perchlorate  Lab Control Standard		<u>CAS No</u>	Bl	LK	Crea	its	/04/2023 11:17 RDL	RPD	0.00		Qualifiers ND
RESULTS  Compound  Perchlorate		<u>CAS No</u> 14797-73-0	Bl		Crea	its	/04/2023 11:17 RDL 4.0	RPD	0.00	For QC Batch	Qualifiers ND
RESULTS  Compound Perchlorate  Lab Control Standard	CAS No	<u>CAS No</u> 14797-73-0	Bl	Orig. Result (ug/L)	Crea	its	/04/2023 11:17 RDL 4.0		D Limit	For QC Batch	Qualifiers ND

<u>Project</u> <u>Workorder</u>

Compound

Perchlorate

70254255 3300553



Qualifiers

### QUALITY CONTROL SAMPLES

### WET CHEMISTRY (cont.)

CAS No

14797-73-0

Method Blank		3664398	(MB)	Crea	ated on <u>05/</u>	04/2023 11:24	For QC Batch	987266
RESULTS								
Compound		CAS No		<u>Result</u> <u>Ur</u>	<u>nits</u>	<u>RDL</u>		Qualifiers
Perchlorate		14797-73-0	BLK	ND ug/	/L	4.0		ND
Lab Control Standard		3665096	(LCS)	Crea	ated on <u>05/</u> 0	05/2023 11:59	For QC Batch	987266
RESULTS								
	0404		<u>Result</u>	Orig. Spk Result Added	Rec.	1 (0/)	DDD 1: '' (0())	0 115

(ug/L)

(ug/L)

25

(ug/L)

26.60

LCS

(%)

Limits (%)

85 - 115

RPD Limit (%)

**Project** 70254255 Workorder

3300553



### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	Ву	Analysis Method	Anly Batch
3300553001	N-13119	N/A	N/A	N/A		EPA 314.0	987266

Pace Analytical

Logged By: KSB
PM: SSL 3300553

Results Requested By: 5/10/2023 IOC/PERC/1,4DIOX/PFAS/POC 4/26 ALS -Middletown Subcontract To Workorder Name: Workorder: 70254255

52 Therm ID WO Temp (°C) remp By: **126** 70254255 JSA P.O. Middletown, PA 17057 301 Fulling Mill Road Report / Invoice To

Correct Containers Provided Sample Custody Seal Intact Receipt Info Completed By: Cooler Custody Seal Intact Cooler & Samples Intact Received on Ice 3140 Perchlorate by IC Preserved Containers Phone (631)694-3040 Email: jennifer.aracri@pacelabs.com È State of Sample Origin: 575 Broad Hollow Road Pace Analytical Melville Melville, NY 11747 Jennifer Aracri

Courier/Tracking and Cut of Cu × Unpreserved Drinking Matrix 70254255001 Lab ID 4/26/2023 10:32 Date/Time Collect

Sample ID

Item

N-13119

∾ | ო | 4 | სი | page 33 of 36

Adequate Sample Volumes

VOA Headspace Present CR6 Samples Filtered

Voa Trip Blank

NJ≤ 4 Days?

Rad Screen (uCi)

OP Samples Filtered

Sample Label/COC Agree

B

**%** 2 >

PWSID WV Containers 0-6°C

ğ

chertalicator Please report in ug/L. no gr 20 ઇ 4.29.73 Date/Time Custody Seal Y or rige, Received By Date/Time ပွ Cooler Temperature on Receipt Released By **Transfers** 

Z ō Received on Ice

Z

ō

Samples Intact

PASI New York Laboratory

Chain of Custody



### Client Info:

Ĺ	Syosser
Wate	Rd
Jericho	5 CONVERT
Vame or Code:	Address: 11

10 #: 5/6-921-8250		Proj. # or (Name):	i.	1	es lo:
Phone #:	Attn:	Proj. # or (		2 .	Copies Io:

## Sample Request Form PUBLIC WATER SUPPLIER

Date: 4/26/ Accepted By: Collected By: Cooler Temp:

Đ		]	, Z	
	ľ	nklin tage	(	A
/	73	elle Co	ပ္စ	17.38

	쁫		
	OFF		
	-	V	0
	WE	_	1
1	T		

**VELL RUN TO SYSTEM** 

ES INO VOC'S PRESERVED WITH HCI

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl <sub>2</sub> pH/Temp	Analysis	Lab No.
oc.01 40/97/4 5	P	iven 26 N-13119	RW		Ro		Buc Series O min	
4/26/23	_	33					Bac series 2 min	
4/26/33							Bac Series 8 min	
4/26/23 10:40							Bac Series (0 min	
4/26/23 11:00							Bac Series 30 min	
4/26/23 10:32						6-71/14.10	IDC W/Perchibrate	7
W/26/23 11:00							1,4 Dioxane	100/
4/26/23 11:00							Pta/ptus 533 W/Field Blank)	
00.11 Ec/19/4	7	7	<b>&gt;</b>		7		) Jod	77002
Remarks:								

Sample Info: page 34 of 36

DC# Title: ENV-FRM-MELV-0148 v1\_Sample Container Count Melville Effective Date: 4/10/2023 Due Date: 05/08/23

WO#: 70254255

Sender Initials 200 200 Non-aqueous Liquid dΜ Drinking Water Add SCLOGFD to first sample for field charge CN Matrix CLIENT: JWD SPLC Medin MEKN WEED WGZU Use Point Number 40mL Ascorbic acid/ maleic Acid vial Citrate/Na Thiosulfale 40mL 15dS 1L unpreserved plastic 250ml. HNO3 plastic 250ml. Sodium Hydroxide DG6M MonoClAcletic/Na Thio 60ml Na Thiosulfate 250mL bottle Na Thiosulfate Amber bottle 500mL unpres amber glass 250mL unpres amber glass Na Thiosultate 1L Amber 525.3 Chemical Blend 40mL Na Thio amber vial Na Thiosulfate 60mL vial 8618 BP1N SP1Z 100 BP3R Can also be a BP4N 8632 N AG1T AG1A DG9Y DG6T AG3U AG3T BP1B BP3T VG9T BP1U ВЬЗС NZdB C NEGE 120mL Coliform Na Thio 4oz Unpreserved Jar 8oz Unpreserved Jar 16oz Unpreserved Jar NEGE 2oz Unpreserved Jar Tedlar Bag 1L HCL Clear Glass SZde SEdB Ziplock Bag > Please log-in the 2nd south. BP1U USPE WGFU WGKU WGDU ŏ DEAB ZPLC TEDL BG1H UP4B urac 125mL unpreserved plastic Na Thiosulfate Amber Bottle unpreserved plastic 250mL Ammonium Acetate 1L unpreserved plastic 125mL HNO3 plastic 250mL HNO3 plastic 250mL NH4SO4-NH4OF 500mL HNO3 plastic 250mL H2SO4 plastic 500mL H2SO4 plastic ALDA 1L NaOH, Zn Acetate NaOH 250mL bottle HLDA 1L HNO3 plastic 250mL Trizma Profile #: TIDA COC Page **VCSR** TEDA VCVE BP3R BP1Z BP1N BP1B 1liter unpres amber glass BP1U Ammonium Cl 250mL bottle BP4N 250mL H2SO4 amber glass BP3N BP3S BP2S ВРЗС BP35 125mL unpres amber glass | BP4U BP3T 1032 125mL EDA amber glass Bf 250mL Na Thio amber glass Bf Na Sulfile 500mL (blue Cap) Bf Na Thiosulfate 1L bottle Bf VCSV ופוח 1L HCl amber glass Vesn neav VEN S690 1990 40mL Sulfuirc clear vial AG1U 40mL Na Thiosulfate vial AG34 40mL Citrate-Na Thiosulfate AG3S AG4E AG3T AG2R 40mL unpres clear vial AG4U 40mL Ascorbic-HCI clear vial AG3U 40mL HCI clear vial AG2U AG1T AG1H AG1A **Y690 4650** Ammonium CI/CuSO4 40mL Ascorbic/Maleic Acid 40mL OC61 1L Unpres Jar (Con Ed) 40mL amber vial - TSP Na Thio 60mL Vial T690 8oz clear soil jar 4oz clear soil jar S65/ H69/ Additional Comments AG9C WG90 WG40 169/ DG9P DG9A DG6T VG9S DG9Y /G9U /G9C mitey 10 page 35 of 36 COC Line

0)	Sa	ample (	Conditi	on Up <mark>r</mark>	HOH	70	2542	<b>5</b> 5
Pace Analytical °					84 6	10	Dun Date	e: 05/08/23
/ ace Ailaiyillai	Client Na	ame:	$\circ$		PM: JSA		Due par	
	2	JW			CLIENT:	JWD		
Courier: Fed Ex UPS USPS Client		ercial 🗆	ace Othe	er	020			
fracking #:								
Custody Seal on Cooler/Box Present: Te	s 🔲 No	Seals in	itact: 🗆 Ye	s No [	IN/A		erature Blank	
Packing Material: 🗆 Bubble Wrap 🔲 Bubble	Bags 🗀	Ziploc 🕝	None 🗆 Ot	her		Type	of Ice: Wet	Blue None
hermometer Used: THO! THIVE	Correcti	on Factor	· -C	3		Sampl	es on ice, cooli	ng process has begun
Cooler Temperature(°C): 3.4			re Correct					ts placed in freezer_
Temp should be above freezing to 6.0°C								1
JSDA Regulated Soil [ ANA water sample]	1			Datesan	d Initials of o	егѕол ех	amining conte	ents: 5# 4/26
		*- 10	- A1 AD CA					from a foreign source
Did samples originate in a quarantine zone wi		THEO STATE	S. AL, AR, CA	ג רב, טא <i>ג</i> זט ג	F, DA, 1915, 1916,	שני שני	inples originate	Puerto Rico)? Yes
NM. NY. OK, OR, SC, TN, TX, or VA [check map]?	∟ Yes	s □No	0 010) -		th DOUD!	1110100	ng nawan anu	Publifu kiroli. Diese
f Yes to either question, fill out a Regulate	ed Soil Chi	ecklist [F-	LI-C-UIUJ a	na inciua	e with 200K/t	or babe	POWER TO	
Table 1				-			COMMENTS:	
Chain of Custody Present:	<b>Z</b> Yes	□No		II.				
Chain of Custody Filled Out:	rayes			2				
Chain of Custody Relinquished:	eyes	□No -	- managar	3.				
Sampler Name & Signature on COC:	⊠Yes.	□No	□N/A	4.				
Samples Arrived within Hold Time:	Dyes	□No		5.	2.00			
Short Hold Time Analysis (<72hr):	· DYes	□No -		6.				
Rush Turn Around Time Requested:	□Yes	<b>B</b> No		7.				
Sufficient Volume: (Triple volume provided for	IBYes	□No	•	8.				
Correct Containers Used:	⊡Yes	□No		9.				
-Pace Containers Used:	<b>DVes</b>							11
Containers Intact:	Tarres	□No		10.			* Q	
Filtered volume received for Dissolved tests	□Yes-	- □No	DM/A	11.	Note if sedi	ment is v	isible in the dis	solved container.
Sample Labels match COC:	Yes	□No		12	•		3	ž .
Includes date/time/ID/Matrix St. Avi )		- Sit-		· -	-	الرسيد		The second second
All containers needing preservation have been		□No	" DN/A	13.	☐ HNO <sub>3</sub>	iH₂S0	₄ □NaOH	□ HCT
		æ	2		•			
checked? oH paper Lot # <i>(HC 2930</i> )	85			1				
All containers needing preservation are found	to be			Sample	#			
n compliance with method recommendation?	/							950
HNO3, H2SO4, HCI, NaOH>9 Sulfide,	□Yes	□No -	□N/A					
VAOH>12 Cyanide)	1		*				8	1920
exceptions: VOA, Coliform, TOC/DOC, Oil and G	rease,							
DRO/8015 (water).			8	Initial wh	ien completed:			Date/Time preserva
Per Method, VOA pH is checked after analysis					244	preserv	ative:	added:
camples checked for dechlorination:	□Yes	□No	□N/A	14.				
d starch test strips Lot #. 14-86	D.			1	5			
Residual chlorine strips Lot #					Positive for Re	s. Chlorin	e?YN	
SM 4500 CN samples checked for sulfide?	Pres	□No	□N/A	15.				
ead Acetate Strips Lot # 14-36	2		921		Positive for Su	lfide?	YN	
leadspace in VOA Vials ( >6mm):	□Yes	OVIE	`□N/A	16.				, V
rip Blank Present	□Yes	ZNo	ON/A	17.			847.	e.
Trip Blank Custody Seals Present	□Yes	□No	DN/A	1				
Pace Trip Blank Lot # (if applicable):			ā .					
Client Notification/ Resolution:		400		Field Data	a Required?		Y / N	
Person Contacted:					Date/Time:		167	_==
Comments/ Resolution:						-		
			) 1					
•								



Pace

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

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

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

Jericho Water District 125 Convent Rd. Syosset, NY 11791 Lab No. : 70254407001 Client Sample ID.: N-08355

Attn To: Peter Logan Federal ID: 2902831

 Collected :
 04/27/2023 10:20 AM
 Point
 N-08355

 Received :
 04/27/2023 02:58 PM
 Location Well 25

Collected By CLIENT Sample Comments:
RUN TO WASTE

Analytical Method: EPA 522	]	Prep Method:	EPA 522		Prep Date:	Prep Date: 04/28/2023 12:50			
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Limit</u> <u>Analyzed:</u>			
1,4-Dioxane (p-Dioxane)	10*		5	ug/L	1	05/01/2023 1:38 PM	001 AG2R1/2		
Surr: 1,4-Dioxane-d8 (S)	102%		5	%REC		05/01/2023 1:38 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

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.



### **WorkOrder:**

70254407

### **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

Date Reported: 05/22/2023 page 2 of 20



May 22, 2023

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

Project Location: 1,4DIOXANE/PFAS 4/27

Client Job Number: Project Number: 70254407

Laboratory Work Order Number: 23E0265

Enclosed are results of analyses for samples as received by the laboratory on May 2, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

### **Table of Contents**

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B339147	8
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Pace Analytical Services - Long Island, NY

575 Broad Hollow Road Melville, NY 11747

ATTN: Jennifer Aracri

PURCHASE ORDER NUMBER:

REPORT DATE: 5/22/2023

PROJECT NUMBER: 70254407

### ANALYTICAL SUMMARY

23E0265 WORK ORDER NUMBER:

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

PROJECT LOCATION: 1,4DIOXANE/PFAS 4/27

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-08355	23E0265-01	Drinking Water		EPA 533	
N-08355 FB	23E0265-02	Field Blank		EPA 533	



### 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:

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.

bias is on the high side.

Analyte & Samples(s) Qualified:

M2\_6-2FTS

23E0265-02[N-08355 FB]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-4:2FTS

23E0265-02[N-08355 FB], S087798-CCV2

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

Meghan S. Kelley



Project Location: 1,4DIOXANE/PFAS 4/27 Sample Description: Work Order: 23E0265

Date Received: 5/2/2023

Field Sample #: N-08355

Sampled: 4/27/2023 10:20

Sample ID: 23E0265-01
Sample Matrix: Drinking Wat.

Sample Matrix: Drinking Water		Sem	ivolatile Organic Comp	ounds by - l	LC/MS-MS				
		МС	L/SMCL				Date	Date/Time	
Analyte	Results	RL MA	ORSG Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	15	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoropentanoic acid (PFPeA)	11	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorohexanoic acid (PFHxA)	11	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
11Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoropetanesulfonic acid (PFPeS)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoroheptanoic acid (PFHpA)	7.0	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorooctanoic acid (PFOA)	4.0	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Surrogates		% Recover	y Recovery Limits		Flag/Qual				
M2-4:2FTS		53.1	50-200					5/17/23 20:45	
M2-8:2FTS		113	50-200					5/17/23 20:45	
MPFBA		87.0	50-200					5/17/23 20:45	
M3HFPO-DA		54.4	50-200					5/17/23 20:45	
M6PFDA		81.2	50-200					5/17/23 20:45	
M3PFBS		101	50-200					5/17/23 20:45	
M7PFUnA		84.4	50-200 50-200					5/17/23 20:45	
M2-6:2FTS M5PFPeA		80.7 82.2	50-200					5/17/23 20:45 5/17/23 20:45	
M5PFHxA		74.7	50-200					5/17/23 20:45	
M3PFHxS		106	50-200					5/17/23 20:45	
M4PFHpA		74.4	50-200					5/17/23 20:45	
M8PFOA		75.2	50-200					5/17/23 20:45	
M8PFOS		107	50-200					5/17/23 20:45	
M9PFNA		75.4	50-200					5/17/23 20:45	
MPFDoA		82.1	50-200					5/17/23 20:45	



Project Location: 1,4DIOXANE/PFAS 4/27 Sample Description: Work Order: 23E0265

Date Received: 5/2/2023

Field Sample #: N-08355 FB

Sampled: 4/27/2023 10:20

Sample ID: 23E0265-02

Sample Matrix: Field Blank		So	emivolatile Organic Co	mpounds by - 1	LC/MS-MS				
			ACL/SMCL	p			ъ.	D / /T:	
Analyte	Results		MA ORSG Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
11Cl-PF3OUdS (F53B Major)									
	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoropetanesulfonic acid (PFPeS)									
	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Surrogates		% Recov	ery Recovery Lim	its	Flag/Qual				
M2-4:2FTS		38.8	\$ 50-200		S-29			5/17/23 20:53	
M2-8:2FTS		96.1	50-200					5/17/23 20:53	
MPFBA		98.1	50-200					5/17/23 20:53	
M3HFPO-DA		70.2	50-200					5/17/23 20:53	
M6PFDA		77.3	50-200					5/17/23 20:53	
M3PFBS		104	50-200					5/17/23 20:53	
M7PFUnA		74.7	50-200					5/17/23 20:53	
M2-6:2FTS		265	\$ 50-200		PF-17			5/17/23 20:53	
M5PFPeA		95.2	50-200					5/17/23 20:53	
M5PFHxA		80.4	50-200					5/17/23 20:53	
M3PFHxS		110	50-200					5/17/23 20:53	
M4PFHpA		88.1	50-200					5/17/23 20:53	
M8PFOA		96.8	50-200					5/17/23 20:53	
M8PFOS		98.9	50-200					5/17/23 20:53	
M9PFNA		84.0	50-200					5/17/23 20:53	
MPFDoA		77.3	50-200					5/17/23 20:53	



### Sample Extraction Data

Prep Method:EPA 533 Analytical Method:EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E0265-01 [N-08355]	B339147	250	1.00	05/03/23
23E0265-02 [N-08355 FB]	B339147	250	1.00	05/03/23



### QUALITY CONTROL

Spike

Source

RPD

%REC

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

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B339147 - EPA 533										
Blank (B339147-BLK1)				Prepared: 05	/03/23 Analy	yzed: 05/17/2	:3			
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							
5:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L							
Perfluoropetanesulfonic 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	49.6		ng/L	37.5		132	50-200			
Surrogate: M2-8:2FTS	62.9		ng/L	38.4		164	50-200			
Surrogate: MPFBA	53.8		ng/L	40.0		134	50-200			
Surrogate: M3HFPO-DA	42.9		ng/L	40.0		107	50-200			
Surrogate: M6PFDA	58.6		ng/L	40.0		147	50-200			
Surrogate: M3PFBS	59.3		ng/L	37.3		159	50-200			
Surrogate: M7PFUnA	51.7		ng/L	40.0		129	50-200			
Surrogate: M2-6:2FTS	51.4 52.6		ng/L	38.0		135	50-200			
Surrogate: M5PFPeA	52.6 52.4		ng/L	40.0		131	50-200			
Surrogate: M5PFHxA	52.4		ng/L	40.0 37.9		131	50-200			
Surrogate: M3PFHxS Surrogate: M4PFHpA	62.6 54.9		ng/L ng/L	40.0		165 137	50-200 50-200			
Surrogate: M4FF HPA Surrogate: M8PFOA	57.0		ng/L ng/L	40.0		142	50-200			
Surrogate: M8PFOS	56.9		ng/L ng/L	38.4		142	50-200			
Surrogate: M9PFNA	52.9		ng/L ng/L	40.0		132	50-200			
Surrogate: MPFDoA	51.6		ng/L ng/L	40.0		129	50-200			
LCS (B339147-BS1)	51.0				/03/23 Analy	yzed: 05/17/2				
Perfluorobutanoic acid (PFBA)	2.32	2.0	ng/L	2.00		116	50-150			
Perfluorobutanesulfonic acid (PFBS)		2.0	ng/L	1.77		110	50-150			
Perfluoropentanoic acid (PFPeA)	1.94 2.19	2.0	ng/L	2.00		109	50-150			
Perfluorohexanoic acid (PFHxA)	2.19	2.0	ng/L	2.00		103	50-150			
11Cl-PF3OUdS (F53B Major)	1.66	2.0	ng/L	1.88		87.9	50-150			
9Cl-PF3ONS (F53B Minor)	1.66	2.0	ng/L	1.86		105	50-150			



### 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 B339147 - EPA 533										
.CS (B339147-BS1)				Prepared: 05	/03/23 Analy	zed: 05/17/2	23			
4,8-Dioxa-3H-perfluorononanoic acid ADONA)	2.02	2.0	ng/L	1.88		107	50-150			
Hexafluoropropylene oxide dimer acid HFPO-DA)	2.16	2.0	ng/L	2.00		108	50-150			
:2 Fluorotelomersulfonic acid (8:2FTS A)	2.18	2.0	ng/L	1.92		113	50-150			
Perfluorodecanoic acid (PFDA)	2.44	2.0	ng/L	2.00		122	50-150			
Perfluorododecanoic acid (PFDoA)	1.90	2.0	ng/L	2.00		94.9	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid PFEESA)	1.82	2.0	ng/L	1.78		102	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.98	2.0	ng/L	1.91		104	50-150			
1:2 Fluorotelomersulfonic acid (4:2FTS A)	2.01	2.0	ng/L	1.87		107	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.96	2.0	ng/L	1.83		107	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	2.14	2.0	ng/L	2.00		107	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	2.21	2.0	ng/L	2.00		110	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.91	2.0	ng/L	1.90		100	50-150			
Perfluoropetanesulfonic acid (PFPeS)	1.84	2.0	ng/L	1.88		97.8	50-150			
Perfluoroundecanoic acid (PFUnA)	2.47	2.0	ng/L	2.00		124	50-150			
Nonafluoro-3,6-dioxaheptanoic acid NFDHA)	2.04	2.0	ng/L	2.00		102	50-150			
Perfluoroheptanoic acid (PFHpA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorooctanoic acid (PFOA)	2.24	2.0	ng/L	2.00		112	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.17	2.0	ng/L	1.85		118	50-150			
Perfluorononanoic acid (PFNA)	1.72	2.0	ng/L	2.00		86.2	50-150			
Surrogate: M2-4:2FTS	33.6		ng/L	37.5		89.5	50-200			
Surrogate: M2-8:2FTS	40.9		ng/L	38.4		107	50-200			
Surrogate: MPFBA	41.8		ng/L	40.0		105	50-200			
Surrogate: M3HFPO-DA	33.6		ng/L	40.0		84.0	50-200			
Surrogate: M6PFDA	44.0		ng/L	40.0		110	50-200			
Surrogate: M3PFBS	41.7		ng/L	37.3		112	50-200			
Surrogate: M7PFUnA	38.9		ng/L	40.0		97.3	50-200			
Surrogate: M2-6:2FTS	38.4		ng/L	38.0		101	50-200			
Surrogate: M5PFPeA	41.8		ng/L	40.0		105	50-200			
Surrogate: M5PFHxA	41.5		ng/L	40.0		104	50-200			
Surrogate: M3PFHxS	43.6		ng/L	37.9		115	50-200			
Surrogate: M4PFHpA	40.9		ng/L	40.0		102	50-200			
Surrogate: M8PFOA	44.0		ng/L	40.0		110	50-200			
Surrogate: M8PFOS	41.5		ng/L	38.4		108	50-200			
Surrogate: M9PFNA	40.8		ng/L	40.0		102	50-200			
Surrogate: MPFDoA	41.6		ng/L	40.0		104	50-200			
LCS Dup (B339147-BSD1)				•	/03/23 Analy					
Perfluorobutanoic acid (PFBA)	2.30	2.0	ng/L	2.00		115	50-150	0.805	30	
Perfluorobutanesulfonic acid (PFBS)	1.80	2.0	ng/L	1.77		102	50-150	7.65	30	
Perfluoropentanoic acid (PFPeA)	2.00	2.0	ng/L	2.00		100	50-150	8.65	30	
Perfluorohexanoic acid (PFHxA)	1.91	2.0	ng/L	2.00		95.4	50-150	8.15	30	
1Cl-PF3OUdS (F53B Major)	1.70	2.0	ng/L	1.88		90.3	50-150	2.66	30	
OCI-PF3ONS (F53B Minor)	2.04	2.0	ng/L	1.86		110	50-150	3.93	30	
4,8-Dioxa-3H-perfluorononanoic acid ADONA)	1.78	2.0	ng/L	1.88		94.7	50-150	12.6	30	
Hexafluoropropylene oxide dimer acid HFPO-DA)	1.95	2.0	ng/L	2.00		97.6	50-150	10.1	30	
3:2 Fluorotelomersulfonic acid (8:2FTS A)	1.77	2.0	ng/L	1.92		92.3	50-150	20.6	30	
Perfluorodecanoic acid (PFDA)	2.78	2.0	ng/L	2.00		139	50-150	12.8	30	
Perfluorododecanoic acid (PFDoA)	1.95	2.0	ng/L	2.00		97.7	50-150	2.90	30	



### 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
-	Result	Liillt	Omo	Level	Result	/UKLC	Liiiii	МЪ	Limit	110103
Batch B339147 - EPA 533										
.CS Dup (B339147-BSD1)				Prepared: 05	5/03/23 Analy	yzed: 05/17/2	23			
Perfluoro(2-ethoxyethane)sulfonic acid PFEESA)	1.71	2.0	ng/L	1.78		96.1	50-150	6.08	30	
Perfluoroheptanesulfonic acid (PFHpS)	2.11	2.0	ng/L	1.91		110	50-150	6.17	30	
:2 Fluorotelomersulfonic acid (4:2FTS A)	1.84	2.0	ng/L	1.87		98.3	50-150	8.65	30	
erfluorohexanesulfonic acid (PFHxS)	1.93	2.0	ng/L	1.83		106	50-150	1.42	30	
erfluoro-4-oxapentanoic acid (PFMPA)	2.03	2.0	ng/L	2.00		101	50-150	5.11	30	
erfluoro-5-oxahexanoic acid (PFMBA)	2.14	2.0	ng/L	2.00		107	50-150	3.09	30	
:2 Fluorotelomersulfonic acid (6:2FTS A)	2.33	2.0	ng/L	1.90		122	50-150	19.8	30	
Perfluoropetanesulfonic acid (PFPeS)	1.72	2.0	ng/L	1.88		91.7	50-150	6.48	30	
erfluoroundecanoic acid (PFUnA)	2.33	2.0	ng/L	2.00		116	50-150	6.02	30	
Ionafluoro-3,6-dioxaheptanoic acid NFDHA)	1.97	2.0	ng/L	2.00		98.7	50-150	3.15	30	
erfluoroheptanoic acid (PFHpA)	2.14	2.0	ng/L	2.00		107	50-150	6.43	30	
erfluorooctanoic acid (PFOA)	1.92	2.0	ng/L	2.00		95.8	50-150	15.7	30	
erfluorooctanesulfonic acid (PFOS)	2.00	2.0	ng/L	1.85		108	50-150	8.46	30	
erfluorononanoic acid (PFNA)	1.55	2.0	ng/L	2.00		77.3	50-150	10.9	30	
urrogate: M2-4:2FTS	35.0		ng/L	37.5		93.3	50-200			
urrogate: M2-8:2FTS	46.0		ng/L	38.4		120	50-200			
urrogate: MPFBA	39.8		ng/L	40.0		99.5	50-200			
urrogate: M3HFPO-DA	30.8		ng/L	40.0		77.1	50-200			
urrogate: M6PFDA	39.4		ng/L	40.0		98.5	50-200			
urrogate: M3PFBS	42.8		ng/L	37.3		115	50-200			
urrogate: M7PFUnA	38.4		ng/L	40.0		96.0	50-200			
urrogate: M2-6:2FTS	36.5		ng/L	38.0		95.8	50-200			
urrogate: M5PFPeA	39.7		ng/L	40.0		99.3	50-200			
urrogate: M5PFHxA	39.1		ng/L	40.0		97.7	50-200			
urrogate: M3PFHxS	45.3		ng/L	37.9		119	50-200			
urrogate: M4PFHpA	41.4		ng/L	40.0		103	50-200			
urrogate: M8PFOA	40.8		ng/L	40.0		102	50-200			
urrogate: M8PFOS	40.0		ng/L	38.4		104	50-200			
urrogate: M9PFNA	38.5		ng/L	40.0		96.2	50-200			
urrogate: MPFDoA	39.8		ng/L	40.0		99.5	50-200			



### 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.
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.
\$ 20	Extracted Internal Standard is outside of control limits



### CERTIFICATIONS

### Certified Analyses included in this Report

Perfluorononanoic acid (PFNA)

**Analyte** Certifications

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

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

Code	Description	Number	Expires
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	06/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023

NH,NY,VT-DW,ME,NJ,PA

23E-026B

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Report To				Subcontract To	ract To						Requester	Requested Analysis			
Jennifer Aracri Pace Analytica 575 Broad Holl	Jennifer Aracri Pace Analytical Melville 575 Broad Hollow Road			Pac 39 (	Pace New England 39 Spruce St. East Longmeadow, MA 01028	MA 01028									
Melville, NY 11747   Phone (631)694-3040	<b>ぐ</b> 11747 ∪694-3040			Pho	ne (413)525-23	132									
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page 15 of 20

JWC

Page 1 of 1

<sup>\*\*\*</sup>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.

### DELIVERED

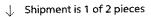
### Tuesday

5/2/2023 at 9:30 am

Signed for by: A.MULLIER

### **DELIVERY STATUS**

Delivered 😵



### TRACKING ID

647678494687 🖉 🏠

### FROM

MELVILLE, NY US

Label Created 5/1/2023 5:12 PM

### PACKAGE RECEIVED BY FEDEX

MELVILLE, NY 5/1/2023 6:07 PM

### IN TRANSIT

WINDSOR LOCKS, CT 5/2/2023 7:52 AM

### **OUT FOR DELIVERY**

WINDSOR LOCKS, CT 5/2/2023 8:04 AM

### DELIVERED

EAST LONGMEADOW, MA US

Delivered 5/2/2023 at 9:30 AM

 $\downarrow$  View travel history

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL

MORE OPTIONS

Manage Delivery

**SUBMIT** 

FIRA-LUIALFFOR-0002 AOT TOURHE VECELANIE CHECKING T-TS-5052

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

### 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



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# Sample Request Form PUBLIC WATER SUPPLIER

S 4-27-23 Date: Accepted By: Cooler Temp: Collected By:

	LANST
LINE	2
OFF	3
WELL	Ø
শ্র	

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HC!

14.50	•
1127+12	
7	1

Pricho have Convent Rd

Name or Code: Client Info

Address:

1516) 921 8280

Phone #:

Attn:

Proj. # or (Name):

Copies To:

Bill To:

Syosser

112111 14.30		Timos Division
112111		0000

	Origin
14.50	Dismood
4/27+10	T-moon
- 1	

RE - Resample RW - Raw Well S - Special TW - Treated Well T - Tank MW - Monitoring Well I - Influent	ì	Sample Types	Purpose	Origin	Treatment Types
GW - Groundwater RE - Resample RW - Raw Well SW - Surface Water S - Special TW - Treated Well WW - Waste Water MW - Monitoring Well AQ - Aqueous I - Influent S - Soil	Ĭ	PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
SW - Surface Water S - Special TW - Treated Well  WW - Waste Water T - Tank  MW - Monitoring Well  AQ - Aqueous I - Influent  S - Soil		GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
WW - Waste Water  AQ - Aqueous  I - Influent S - Soil	Ì	SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
MW - Monitoring Well I - Influent	77	WW - Waste Water		T - Tank	FE - Iron Removal Plant
_ 11	ì	AQ - Agueous		MW - Monitoring Well	O - Other
	1	S - Soil		F - Fifthent	

						The second secon		
Date/Time Collected:	Sample Type	Location	Origin	Treatment	Purpose	Field Readings Cl <sub>2</sub> pH/Temp	Analysis	Lab No.

Date/Time Collected:	Sample Type		Location	Origin	Treatment Purpose	Purpose	Field Readings Cl <sub>2</sub> pH/Temp	ings H/Temp	Analysis	Lab No.
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0201	D	Au wen 225	N- 08355 FB	Red		B	Ø		Prostopped menul 533 Feb Blank	Feld Blank
Remarks:										

page 18 of 20

DC#\_Title: ENV-FRM-MELV-0148 v1\_Sample Container Count Melville Effective Date: 4/10/2023

WO#: 70254407

Due Date: 05/10/23 Sender Initials 200 00 Non-aqueous Liquid OIL dV Drinking Water Matrix СN SPLC Wipe ndew CLIENT: JWD WEKI PM: JSA WEED WEST DG9A 40mL Ascorbic acld/ malalc Acid vials 1545 DG6M | MonoClAcletic/Na Thio 60ml BP1B Na Thiosulfate Amber bottle AG1T Na Thiosultate 1L Amber AG1A 525.3 Chemical Blend AG3U 250mL unpres amber glass AG3T Na Thiosulfate 250mL bottle DG9Y Citrate/Na Thiosulfate 40mL 500ml, unpres amber glass 250mL HNO3 plastic 250mL Sodium Hydroxide VG9T | 40mL Na Thio amber vial DG6T Na Thiosulfate 60mL vial Add SCL Use Po 8148 1L unpreserved plastic NIGB ZIda 100 BP3R Can also be a BP4N N. BP35 16qE AG2U ВЬЗС ВР2И NEGE 120mL Coliform Na Thio NÞdB WGDU 16oz Unpreserved Jar WG2U 2oz Unpreserved Jar WGFU 4oz Unpreserved Jar WGKU 8oz Unpreserved Jar BG1H 11 HCL Clear Glass SP2S SEGE Terracore Kil Ziplock Bag Tedlar Bag General UIA8 Wipe BP2U ZPLC ŏ BP3U TEDL UÞ9E 125mL unpreserved plastic S 250mL unpreserved plastic F 500mL unpreserved plastic CGIN Na Thiosulfate Amber Bottle BP35 250mL Ammonium Acetate 250mL NH4SO4-NH4OH ATOA 1L unpreserved plastic 250mL H2SO4 plastic 500mL H2SO4 plastic 125mL HNO3 plastic 250mL HNO3 plastic 1L NaOH, Zn Acelate 500mL HNO3 plastic NaOH 250mL bottle HLDA 1L HNO3 plastic Profile #: COC Page TIDA AG2R TEDA VENE BP3R BP1Z BP3N BP3T SEDV 1/liter unpres amber glass B Ammonium Cl 250mL bottle Bl 250mL H2SO4 amber glass Bl 250mL Na Thio amber glass Na Sulfite 500mL (blue Cap) 125mL unpres amber glass 250mL unpres amber glass VC3N 500mL unpres amber glass 125mL EDA amber glass Na Thiosulfate 1L bottle ntey 1L HCI amber glass nzev NEBA (G4D) S650 AG3U AG2U DC91 AG4E AG3T AG2R AG1T AG1H 40mL Sulfuiro clear vial AG1U 40mL Na Thiosulfate vial AG34 40mL Citrate-Na Thiosulfate AG3S AG1A DC9A 40mL Ascorbic-HCl clear vial d690 Ammonlum CI/CuSO4 40mL Ascorbic/Maleic Acid 40mL 1L Unpres Jar (Con Ed) AGDO 40mL amber vial - TSP 40mL unpres clear vial Na Thio 60mL Vial 1690 8oz clear soil jar 4oz clear soil jar Work ID: ★ 569/ Client: HEDA Additional Comments 269A WG9O WG40 069/ DG9Y DG9P DG9A DG6T Matrix page 19 of 20 10 COC Line

> Please by the 2nd sample

Se

Pace® Analytical Services, LLC

	S	ample (	Conditi	on Upo	WO#	:70	2544	<b>+07</b>	_
Pace Analytical	Client	Name:	D		PM: JS	4	Due Da	te: 05/1	10/2
Courier: Fed Ex UPS USPS Client Tracking #:		nercial 🗆	ace Dth	er	OLILITI	1			
Custody Seal on Cooler/Box Present:Yes	0N 🔲 2	Seals in	tact: 🗆 Ye	s[] No 🗂	N/A	Temper	ature Blank	Present:	□Yes
Packing Material: Bubble Wrao Bubble	Bags [	_Ziploc 🛛	tone 🗆 Ot	her			Ice: Wet		
Thermometer Used: THO: THIYE		tion Factor:					on ice, cooli	W	
Cooler Temperature(°C): 3.4	Cooler	Temperatu	re Correct	<u>-ځ:(۴۲)</u>	· <u> </u>	Date/Ti	me 5035A ki	ts placed in	freeze
Temp should be above freezing to 6.0°C USBA Regulated Soil ( ☑N/A water sample)			10	Datesand	Initials of po	erson exar	nining conte	ents:34	4/2
Did samples originate in a quarantine zone wit NM, NY, OK, OR, SC, TN, TX, or VA (check map)?	□ Ye	es 🗆 No		*		including	ples orignate J Hawaii and	from a forei Puerto Rico)?	gn sou
If Yes to either question, fill out a Regulate	d Soil Cl	hecklist [F-I	LI-C-UIUJ a	na incluae T	WITH SCORAC	oc papen	OMMENTS:		•
Chair of Control of Control		CINO	- 11	1		U	DIMMEN12:		
Chain of Custody Present:	Mes	□No		12					
Chain of Custody Filled Out:	Myes	□No		7	100				
Chain of Custody Relinquished:	<b>⊠</b> Yes	□No	-11/A	4.					_
Sampler Name & Signature on COC:	MYes.	□No	□N/A	5.					
Samples Arrived within Hold Time:	Tayes	□No		6.					
	□Yes	DINO -		7.		-			
Rush Turn Around Time Requested:	□Yes	ENO ENO	-	8.					
Sufficient Volume: (Triple volume provided for				0.					
Correct Containers Used:	es			J.				9	
-Pace Containers Used:	☑Yes			10.					
Containers Intact: Filtered volume received for Dissolved tests	□Yes	. □No	EN/A	11.	Note if sedir	maint is visi	ble in the dis	rolvod contai	ner
Sample Labels match COC:	Yes	□No	ERC/JA	12.	Note it scall	TICHELS VISI	i the dis.	SOLVED DOLLCA	11012
Includes date/time/ID/Matrix St WI 0	All the second	CINO		=	·	٠			-
All containers needing preservation have been		□No	IN/A	3	11N0=	TiH <sub>2</sub> SO₄	□NaOH	_ HCT	بجيخ
checked?	Ш				\$				92
pH paper Lot #	-								
All containers needing preservation are found	to be			Sample #					
in compliance with method recommendation?								25	
(HNO₃, H₂SO₄, HCI, NaOH>9 Sulfide,	□Yes	□No ·	ØN/A						•
NAOH>12 Cyanide)			÷				(4)		3
Exceptions: VOA, Coliform, TOC/DOC, Oil and Gr	ease,							I /r-	
DRO/8015 (water).				Initial whe	n completed:			Date/Time	prese
Per Method, VOA pH is checked after analysis			-V/4	16	••	preservat	ve:	added:	
Samples checked for dechlorination:	□Yes	□No	□N/A	14.					
KI starch test strips Lot #	*		9		hadition for Da	- Obladaan	V II		
Residual chlorine strips Lot #		C.M.	M/A.	15.	ositive for Re	s. Unorme	YW		
SM 4500 CN samples checked for sulfide?	□Yes	□No	ENVH:	1	ositive for Sul	fido?	V N		
Lead Acetate Strips Lot #	TWo.	□No.	ENLA	16.	บรเนงะ เกเ อนเ	nues	Y N		- 0-
Headspace in VOA Vials ( >6mm):	□Yes	⊡No □No	DNA	17.				F:	
Trip Blank Present:	□Yes □Yes		ON/A	1"	100			*	
Trip Blank Custody Seals Present Pace Trip Blank Lot # (if applicable):	T162	DIMO.	CTAN						
Client Notification/ Resolution:				Field Data I	Required?		Y / N		
Person Contacted:				. ioio build i	Date/Time:	-	(i)		
Comments/ Resolution:			1981		Joeg mile.				
Toolidant.			1						
4 4 1	10000		eron.						-



Pace

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

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

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

Jericho Water District 125 Convent Rd. Syosset, NY 11791 Lab No. : 70254545001 Client Sample ID.: N-08355

Attn To: Peter Logan Federal ID: 2902831

 Collected:
 04/28/2023 11:55 AM
 Point
 N-08355

 Received:
 04/28/2023 02:35 PM
 Location
 Well 25

Collected By CLIENT Sample Comments:
RUN TO WASTE

Analytical Method: EPA 522		Prep Method:	EPA 522		Prep Date:	05/03/2023 9:05 AM	
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	10.3*		5	ug/L	1	05/04/2023 12:19	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	101%		5	%REC		05/04/2023 12:19	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

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.



### **WorkOrder:**

70254545

### **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

Date Reported: 05/18/2023 page 2 of 20

May 18, 2023

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

Project Location: 1,4DIOXANE/PFAS 4/28

Client Job Number: Project Number: 70254545

Laboratory Work Order Number: 23E0219

Enclosed are results of analyses for samples as received by the laboratory on May 2, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

### **Table of Contents**

Sample Summary	3
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QC Data	7
Semivolatile Organic Compounds by - LC/MS-MS	7
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Pace Analytical Services - Long Island, NY

575 Broad Hollow Road Melville, NY 11747

ATTN: Jennifer Aracri

PURCHASE ORDER NUMBER:

REPORT DATE: 5/18/2023

PROJECT NUMBER: 70254545

ANALYTICAL SUMMARY

23E0219 WORK ORDER NUMBER:

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

PROJECT LOCATION: 1,4DIOXANE/PFAS 4/28

FIELD SAMPLE # MATRIX TEST LAB ID: SAMPLE DESCRIPTION SUB LAB EPA 533 N-08355 23E0219-01 Drinking Water



#### 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



Work Order: 23E0219 Project Location: 1,4DIOXANE/PFAS 4/28 Sample Description:

Date Received: 5/2/2023 Field Sample #: N-08355

Sampled: 4/28/2023 11:55

Sample ID: 23E0219-01

M9PFNA

MPFDoA

Sample ID: 23E0219-01										
Sample Matrix: Drinking Water										
		;	Semivolatile Org	anic Com	pounds by - l	LC/MS-MS				
			MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	15	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoropentanoic acid (PFPeA)	11	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorohexanoic acid (PFHxA)	11	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)				_						
	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoropetanesulfonic acid (PFPeS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoroheptanoic acid (PFHpA)	6.9	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorooctanoic acid (PFOA)	4.4	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Surrogates		% Reco	overy Recov	ery Limit	s	Flag/Qual				
M2-4:2FTS		60.0	5	0-200					5/17/23 20:31	
M2-8:2FTS		127	5	0-200					5/17/23 20:31	
MPFBA		91.3	5	0-200					5/17/23 20:31	
M3HFPO-DA		54.2	5	0-200					5/17/23 20:31	
M6PFDA		94.6	5	0-200					5/17/23 20:31	
M3PFBS		108	5	0-200					5/17/23 20:31	
M7PFUnA		90.6	5	0-200					5/17/23 20:31	
M2-6:2FTS		80.0		60-200					5/17/23 20:31	
M5PFPeA		87.5		0-200					5/17/23 20:31	
M5PFHxA		75.3		0-200					5/17/23 20:31	
M3PFHxS		110		0-200					5/17/23 20:31	
M4PFHpA		82.1		0-200					5/17/23 20:31	
M8PFOA		80.4		0-200					5/17/23 20:31	
M8PFOS		110	5	0-200					5/17/23 20:31	

5/17/23 20:31

5/17/23 20:31

50-200

50-200

81.2

87.8



# Sample Extraction Data

Prep Method:EPA 533 Analytical Method:EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E0219-01 [N-08355]	B339147	250	1.00	05/03/23



# QUALITY CONTROL

Spike

Source

%REC

RPD

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

Reporting

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Satch B339147 - EPA 533										
lank (B339147-BLK1)				Prepared: 05	/03/23 Analy	yzed: 05/17/2	.3			
erfluorobutanoic acid (PFBA)	ND	2.0	ng/L							
erfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
erfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
erfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
1Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
,8-Dioxa-3H-perfluorononanoic acid ADONA)	ND	2.0	ng/L							
(exafluoropropylene oxide dimer acid HFPO-DA)	ND	2.0	ng/L							
:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
erfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
erfluoro(2-ethoxyethane)sulfonic acid PFEESA)	ND	2.0	ng/L							
erfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L							
:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0	ng/L							
erfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
erfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	ng/L							
erfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	ng/L							
2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L							
erfluoropetanesulfonic acid (PFPeS)	ND	2.0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
onafluoro-3,6-dioxaheptanoic acid NFDHA)	ND	2.0	ng/L							
erfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
erfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
erfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
urrogate: M2-4:2FTS	49.6		ng/L	37.5		132	50-200			
urrogate: M2-8:2FTS	62.9		ng/L	38.4		164	50-200			
urrogate: MPFBA	53.8		ng/L	40.0		134	50-200			
urrogate: M3HFPO-DA	42.9		ng/L	40.0		107	50-200			
urrogate: M6PFDA	58.6		ng/L	40.0		147	50-200			
urrogate: M3PFBS	59.3		ng/L	37.3		159	50-200			
urrogate: M7PFUnA	51.7		ng/L	40.0		129	50-200			
urrogate: M2-6:2FTS	51.4		ng/L	38.0		135	50-200			
urrogate: M5PFPeA	52.6		ng/L	40.0		131	50-200			
urrogate: M5PFHxA	52.4		ng/L	40.0		131	50-200			
urrogate: M3PFHxS	62.6		ng/L	37.9		165	50-200			
urrogate: M4PFHpA	54.9		ng/L	40.0		137	50-200			
urrogate: M8PFOA	57.0		ng/L	40.0		142	50-200			
urrogate: M8PFOS	56.9		ng/L	38.4		148	50-200			
urrogate: M9PFNA	52.9		ng/L	40.0		132	50-200			
rrogate: MPFDoA	51.6		ng/L	40.0		129	50-200			
CS (B339147-BS1)				Prepared: 05	/03/23 Analy	yzed: 05/17/2	3			
erfluorobutanoic acid (PFBA)	2.32	2.0	ng/L	2.00		116	50-150			
erfluorobutanesulfonic acid (PFBS)	1.94	2.0	ng/L	1.77		110	50-150			
erfluoropentanoic acid (PFPeA)	2.19	2.0	ng/L	2.00		109	50-150			
erfluorohexanoic acid (PFHxA)	2.07	2.0	ng/L	2.00		103	50-150			
1Cl-PF3OUdS (F53B Major)	1.66	2.0	ng/L	1.88		87.9	50-150			
Cl-PF3ONS (F53B Minor)	1.96	2.0	ng/L	1.86		105	50-150			



# 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
satch B339147 - EPA 533										
CS (B339147-BS1)				Prepared: 05	/03/23 Analy	zed: 05/17/2	23			
,8-Dioxa-3H-perfluorononanoic acid	2.02	2.0	ng/L	1.88		107	50-150			
ADONA)	• • •	2.0	# a/I	2.00		100	50.150			
lexafluoropropylene oxide dimer acid HFPO-DA)	2.16	2.0	ng/L	2.00		108	50-150			
:2 Fluorotelomersulfonic acid (8:2FTS A)	2.18	2.0	ng/L	1.92		113	50-150			
erfluorodecanoic acid (PFDA)	2.44	2.0	ng/L	2.00		122	50-150			
erfluorododecanoic acid (PFDoA)	1.90	2.0	ng/L	2.00		94.9	50-150			
erfluoro(2-ethoxyethane)sulfonic acid	1.82	2.0	ng/L	1.78		102	50-150			
PFEESA)										
erfluoroheptanesulfonic acid (PFHpS)	1.98	2.0	ng/L	1.91		104	50-150			
22 Fluorotelomersulfonic acid (4:2FTS A)	2.01	2.0	ng/L	1.87		107	50-150			
erfluorohexanesulfonic acid (PFHxS)	1.96	2.0	ng/L	1.83		107	50-150			
erfluoro-4-oxapentanoic acid (PFMPA)	2.14	2.0	ng/L	2.00		107	50-150			
erfluoro-5-oxahexanoic acid (PFMBA)	2.21	2.0	ng/L	2.00		110	50-150			
2 Fluorotelomersulfonic acid (6:2FTS A)	1.91	2.0	ng/L	1.90		100	50-150			
erfluoropetanesulfonic acid (PFPeS)	1.84	2.0	ng/L	1.88		97.8	50-150			
erfluoroundecanoic acid (PFUnA)	2.47	2.0	ng/L	2.00		124	50-150			
Ionafluoro-3,6-dioxaheptanoic acid	2.04	2.0	ng/L	2.00		102	50-150			
NFDHA)	2.20	2.0	nc/I	2.00		11.4	50 150			
erfluoroheptanoic acid (PFHpA)	2.28	2.0	ng/L	2.00		114	50-150			
erfluorooctanoic acid (PFOA)	2.24	2.0	ng/L	2.00		112	50-150			
erfluorooctanesulfonic acid (PFOS)	2.17	2.0	ng/L	1.85		118	50-150			
erfluorononanoic acid (PFNA)	1.72	2.0	ng/L	2.00		86.2	50-150			
urrogate: M2-4:2FTS	33.6		ng/L	37.5		89.5	50-200			
urrogate: M2-8:2FTS	40.9		ng/L	38.4		107	50-200			
urrogate: MPFBA	41.8		ng/L	40.0		105	50-200			
urrogate: M3HFPO-DA	33.6		ng/L	40.0		84.0	50-200			
urrogate: M6PFDA	44.0		ng/L	40.0		110	50-200			
urrogate: M3PFBS	41.7		ng/L	37.3		112	50-200			
urrogate: M7PFUnA	38.9		ng/L	40.0		97.3	50-200			
urrogate: M2-6:2FTS	38.4		ng/L	38.0		101	50-200			
urrogate: M5PFPeA	41.8		ng/L	40.0		105	50-200			
urrogate: M5PFHxA	41.5		ng/L	40.0		104	50-200			
urrogate: M3PFHxS	43.6		ng/L	37.9		115	50-200			
urrogate: M4PFHpA	40.9		ng/L	40.0		102	50-200			
urrogate: M8PFOA	44.0		ng/L	40.0		110	50-200			
urrogate: M8PFOS	41.5		ng/L	38.4		108	50-200			
urrogate: M9PFNA	40.8		ng/L	40.0		102	50-200			
urrogate: MPFDoA	41.6		ng/L	40.0		104	50-200			
CS Dup (B339147-BSD1)				Prepared: 05	/03/23 Analy	zed: 05/17/2	23			
erfluorobutanoic acid (PFBA)	2.30	2.0	ng/L	2.00		115	50-150	0.805	30	
erfluorobutanesulfonic acid (PFBS)	1.80	2.0	ng/L	1.77		102	50-150	7.65	30	
erfluoropentanoic acid (PFPeA)	2.00	2.0	ng/L	2.00		100	50-150	8.65	30	
erfluorohexanoic acid (PFHxA)	1.91	2.0	ng/L	2.00		95.4	50-150	8.15	30	
CI-PF3OUdS (F53B Major)	1.70	2.0	ng/L	1.88		90.3	50-150	2.66	30	
CI-PF3ONS (F53B Minor)	2.04	2.0	ng/L	1.86		110	50-150	3.93	30	
8-Dioxa-3H-perfluorononanoic acid	1.78	2.0	ng/L	1.88		94.7	50-150	12.6	30	
ADONA)			_							
lexafluoropropylene oxide dimer acid HFPO-DA)	1.95	2.0	ng/L	2.00		97.6	50-150	10.1	30	
2 Fluorotelomersulfonic acid (8:2FTS A)	1.77	2.0	ng/L	1.92		92.3	50-150	20.6	30	
erfluorodecanoic acid (PFDA)	2.78	2.0	ng/L	2.00		139	50-150	12.8	30	
	4.70	0		2.00			23 130		20	



# 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
Satch B339147 - EPA 533	Tesuit				Ttoball	701250	2			110000
CS Dup (B339147-BSD1)				Prepared: 05	5/03/23 Analy	yzed: 05/17/2	23			
Perfluoro(2-ethoxyethane)sulfonic acid PFEESA)	1.71	2.0	ng/L	1.78		96.1	50-150	6.08	30	
Perfluoroheptanesulfonic acid (PFHpS)	2.11	2.0	ng/L	1.91		110	50-150	6.17	30	
:2 Fluorotelomersulfonic acid (4:2FTS A)	1.84	2.0	ng/L	1.87		98.3	50-150	8.65	30	
Perfluorohexanesulfonic acid (PFHxS)	1.93	2.0	ng/L	1.83		106	50-150	1.42	30	
erfluoro-4-oxapentanoic acid (PFMPA)	2.03	2.0	ng/L	2.00		101	50-150	5.11	30	
erfluoro-5-oxahexanoic acid (PFMBA)	2.14	2.0	ng/L	2.00		107	50-150	3.09	30	
:2 Fluorotelomersulfonic acid (6:2FTS A)	2.33	2.0	ng/L	1.90		122	50-150	19.8	30	
Perfluoropetanesulfonic acid (PFPeS)	1.72	2.0	ng/L	1.88		91.7	50-150	6.48	30	
Perfluoroundecanoic acid (PFUnA)	2.33	2.0	ng/L	2.00		116	50-150	6.02	30	
Nonafluoro-3,6-dioxaheptanoic acid	1.97	2.0	ng/L	2.00		98.7	50-150	3.15	30	
erfluoroheptanoic acid (PFHpA)	2.14	2.0	ng/L	2.00		107	50-150	6.43	30	
erfluorooctanoic acid (PFOA)	1.92	2.0	ng/L	2.00		95.8	50-150	15.7	30	
erfluorooctanesulfonic acid (PFOS)	2.00	2.0	ng/L	1.85		108	50-150	8.46	30	
erfluorononanoic acid (PFNA)	1.55	2.0	ng/L	2.00		77.3	50-150	10.9	30	
urrogate: M2-4:2FTS	35.0		ng/L	37.5		93.3	50-200			
Surrogate: M2-8:2FTS	46.0		ng/L	38.4		120	50-200			
urrogate: MPFBA	39.8		ng/L	40.0		99.5	50-200			
urrogate: M3HFPO-DA	30.8		ng/L	40.0		77.1	50-200			
Surrogate: M6PFDA	39.4		ng/L	40.0		98.5	50-200			
surrogate: M3PFBS	42.8		ng/L	37.3		115	50-200			
surrogate: M7PFUnA	38.4		ng/L	40.0		96.0	50-200			
Surrogate: M2-6:2FTS	36.5		ng/L	38.0		95.8	50-200			
Surrogate: M5PFPeA	39.7		ng/L	40.0		99.3	50-200			
urrogate: M5PFHxA	39.1		ng/L	40.0		97.7	50-200			
urrogate: M3PFHxS	45.3		ng/L	37.9		119	50-200			
urrogate: M4PFHpA	41.4		ng/L	40.0		103	50-200			
urrogate: M8PFOA	40.8		ng/L	40.0		102	50-200			
surrogate: M8PFOS	40.0		ng/L	38.4		104	50-200			
surrogate: M9PFNA	38.5		ng/L	40.0		96.2	50-200			
Surrogate: MPFDoA	39.8		ng/L	40.0		99.5	50-200			



# FLAG/QUALIFIER SUMMARY

†	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.

QC result is outside of established limits.

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



# CERTIFICATIONS

# Certified Analyses included in this Report

Perfluorononanoic acid (PFNA)

**Analyte** Certifications

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

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

Code	Description	Number	Expires
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	06/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023

NH,NY,VT-DW,ME,NJ,PA

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23E021

Internal Transfer Chain of Custody	er Chain of Co	ustody						
		Samples Pre-Lo	Samples Pre-Logged into eCOC.	State Of Origin: NY	in: N   X  X  X  X  X  X  X  X  X  X  X  X  X		Par la	Pace Analytical www.pecelabs.com
Workorder: 70254545	Workorder Name: 1,4DIOXANE/P	1,4DIOXANE/F	PFAS 4/28	Owner Received Date:	ved Date:	4/28/2023	Results Requested By:	<b>3y</b> : 5/15/2023
Jennifer Aracri Pace Analytical Melville		Pace New Engl	lland			Requested Analysis	Analysis	The state of the s
oro Broad Hollow Koad Meiville, NY 11747 Phone (631)694-3040		East Longmea Phone (413)52	East Longmeadow, MA 01028 Phone (413)525-2332					
					2 P^ 233		***************************************	
			Preser	Preserved Containers	Α∃q			
tem Sample ID	Sample Collect Type Date/Time	t ime LabiD	Matrix Other					LAB USE ONLY
N-08355	PS 4/28/20	4/28/2023 11:55 7025454	45001 Drinking 1		×			
ć								
Transfer Dalband D.		_	4				Соттептя	
)acetau			Keceived By	Date/Time	a			
10 mm VMI	TA SA	Mark Clik	mr/My Ive	52-2-05150	22-2	25 Compound List	ound List	enement en en
3								
Cooler Temperature on Receipt 💆 🖔 °C	Receipt u. & °C	Custody Seal	eal Y or (N)	Received on Ice	Ice (Y) or	z	Samples Intact	Y or N
17 (17 ) 17			)					ı

\*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

Monday, May 01, 2023 3:14:50 PM

Ottos / revertades nom/en significación as home from the first of the

FedEx® Tracking

DELIVERED

# Tuesday

5/2/2023 at 9:30 am

Signed for by: A.MULLIER

## DELIVERY STATUS

Delivered 🙆



↓ Shipment is 1 of 2 pieces

# TRACKING ID

647678494687 🗷 🏠

## FROM

MELVILLE, NY US

Label Created 5/1/2023 5:12 PM

#### PACKAGE RECEIVED BY FEDEX

MELVILLE, NY 5/1/2023 6:07 PM

#### IN TRANSIT

WINDSOR LOCKS, CT 5/2/2023 7:52 AM

#### **OUT FOR DELIVERY**

WINDSOR LOCKS, CT 5/2/2023 8:04 AM

## DELIVERED

EAST LONGMEADOW, MA US

Delivered 5/2/2023 at 9:30 AM

↓ View travel history

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL

MORE OPTIONS

200----

Manage Delivery

**SUBMIT** 

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

Log In Back-Sheet

Table of Contents

LOS III DACK-STEEL

Login Sample Receipt Checklist – (Rejection Criteria Listing

– Using Acceptance Policy) Any False statement will be

FIRALL WIALTERIALONDS ANY "DBUILDIE WERCIANIR CHECKINST T-T!



Client_\frac{\frac{1}{2}}{2}				bro	ought to the	attention of	of the Client	- True or False		PEUPLE	
	Pace-Long I	Sland	\							True	False
Project_	PFAS 533-JG	T									
MCP/RCI	P Required N/A					Receive	ed on Ice			<u> </u>	
Deliveral	ole Package Req. <u>N</u> 1	A		*	•	Receive	ed in Cool	er		<u> </u>	
Location	1,4 DIOVANE (PF	24	4128			Custod	/ Seal: DA	NTE T	IME		
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Arrival M	ethod:					COC/Sa	mples Lab	els Agree			
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Received	By / Date / TimeA_A	u/5-2	-23/0	05PC		Samples	Received	within Holdi	ng Time	$\square$	
	et By / Date / Time <u>A</u>				-		enough V			D/	
Temperat	ure Method Tem	ر حل ح	<u> </u>	5	<del></del>		· · · · · · · · · · · · · · · · · · ·	ntainer Used		<b>1</b>	<u> </u>
_	< 6° C Actual Temp	•									
Rush Sam	ples: Yes (No Notify			····			Samples	keguirea			
Short Holo	d: Yes / No Notify_					MS/MSD	-			<u>니</u> ㅁ	
Al-4		100/		100	i i i	Trip Blan	ks				<u> </u>
NOL	es regarding Sampl	es/COC	outsiae	e ot SUP		<u>Lab to Fil</u>	ters			Ц	
-		·			:	COC Legi	ole				
						Client	M A	nalysis 🗹	Sample	r Name	
						Project   All Samı	oles Pro	oer pH:	Collecti	on Date/Tin	ne <b>D</b>
Contai	ner (Circle when applicab	le) Ur	P HCI	HNO3		All Samı	oles Proj	per pH:	N/A I		
Contai	ner (Circle when applicab Amber Plastic	le) Ur	P HCI	HNO3		-			N/A Other Pres		
1L 500 ml	Amber Plastic Amber Plastic	le) Ur	P HCI	HNO3		All Samı	oles Proj	per pH:	N/A I		
1L 500 ml 250 ml	Amber Plastic Amber Plastic Amber Plastic	le) Ur	P HCI	HNO3		All Samı	oles Proj	per pH:	Other Pres		
1L 500 ml 250 ml Other	Amber Plastic Amber Plastic Amber Clear Plastic	le) Ur	P HCl	HNO3		All Samı	oles Proj	per pH:	Other Pres	servative	
1L 500 mt 250 mt Other 16oz	Amber Plastic Amber Plastic Amber Plastic Amber Clear Plastic Amber Clear	le) Ur	P HCI	HNO3		All Samı	oles Proj	per pH:	Other Pres	servative	
1L 500 ml 250 ml Other	Amber Plastic Amber Plastic Amber Clear Amber Clear Amber Clear	le) Ur	P HCI	HNO3		All Samı	oles Proj	per pH:	Other Pres	servative	
1L 500 ml 250 ml Other 16oz 8oz	Amber Plastic Amber Plastic Amber Plastic Amber Clear Plastic Amber Clear	le) Ur	P HCI	HNO3		All Samı	oles Proj	per pH:	Other Pres	servative	
1L 500 mt 250 mt Other 16oz 8oz 4oz	Amber Plastic Amber Plastic Amber Clear Plastic Amber Clear Amber Clear Amber Clear Amber Clear Amber Clear Amber Clear	le) Ur	P HCI	HNO3		All Samı	oles Proj	per pH:	Other Pres	servative	
1L 500 mt 250 mt Other 16oz 8oz 4oz 2oz Col/Bac	Amber Plastic Amber Plastic Amber Clear Plastic Amber Clear	le) Ur	P HCI	HNO3		All Samı	oles Proj	per pH:	Other Pres	servative	
1L 500 mi 250 mi Other 16oz 8oz 4oz 2oz Col/Bac Flashpo	Amber Plastic Amber Plastic Amber Clear Conteria	le) Ur	P HCI	HNO3		All Samı	oles Proj	per pH:	Other Pres	servative	
1L 500 mt 250 mt Other 160z 80z 40z 20z Col/Bac Flashpo Plastic SOC Kit	Amber Plastic Amber Plastic Amber Clear Plastic Amber Clear Bag	le) Ur	P HCI	HNO3		All Samı	oles Proj	per pH:	Other Pres	servative	
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1L 500 mt 250 mt Other 160z 80z 40z 20z Col/Bac Flashpo Plastic SOC Kit	Amber Plastic Amber Plastic Amber Clear Plastic Amber Clear Bag	Je) Ur	P HCI	HNO3	H2SO4	All Samp	Trizma	per pH:	Other Pres	servative	

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# Client Info:

	_		(
Name or Code:	Lectors	Work	7
Address.	125 Cons	AV.	Pool
			18.1

	SYDSYCH	. X	16/11
Phone #:	(30)	571) 921- 8286	280
Attn:	ע		
Proj. # or (Name):.			
Bill To:			
Copies To:			

SW - Surface Water

WW - Waste Water

AQ - Aqueous S - Soil

PW - Potable Water GW - Groundwater

Sample Types

# Sample Request Form PUBLIC WATER SUPPLIER

Date:

本	Jest his	Mry My	48°C(B)	>
Collected Bv:	1	Accepted By:	Cooler Temp:	-

☐ YES ☐ NO VOC'S PRESERVED WITH HCI

Kan to Wash

E WELL OFF LINE

☐ WELL RUN TO SYSTEM

Treatment Types	AST - Air Stripper GAC - Granular Activated Charcoal N - Nitrate Removal Plant FE - Iron Removal Plant O - Other
Origin	D - Distribution RW - Raw Well TW - Treated Well T - Tank MW - Monitoring Well I - Influent E - Effluent
Purpose	RO - Routine RE - Resample S - Special

			-7	1	T	T			1		
Lab No.											
		3									
Analysis	14-Dioxour	/PFOA method						-			
	14-5	Pros									
đ E											
Field Readings Cl <sub>2</sub> pH/Temp											
Field R Cl <sub>2</sub>	Ø	ð									
Purpose	Ro	Ro									
Treatment Type						4					
Orlgin	Pu	Per									
Location	N-08355										
Гос	men #25	wen #25									
Sample Type	Per	Per									
	42823	42823								Remarks:	

Sample Info: page 18 of 20

Aelville	
Count	
ntainer	
Sample Contain	
ENV-FRM-MELV-0148 v	
M-MEL	/10/2023
ENV-FR	te: 4/10
ille:	five Da
DC#_T	Effect

WO#: 70254545

PM: JSA

Due Date: 05/11/23 Sender Initials 200 20 Non-aqueous Liquid dV NS Matrix SPLC Water Solid Medin CLIENT: JWD WEKI DW POLINE MSFU Add SCLOGFD to Tirst sam Nesn 40mL Assorbic acid/ mateic Acid viola Citrate/Na Thiosulfate 40mL Na Thiosulfate 60mL vial 15dS DGBM | MonoClActetic/Na Thio 60ml AG3T Na Thiosulfate 250mL bottle 1L unpreserved plastic 250mL HNO3 plastic 250mL Sodium Hydroxide BP1B Na Thiosulfate Amber bottle AG3U 250mL unpres amber glass 500ml, unpres amber glass VG9T 40mL Na Thio amber vial AG1T Na Thiosultate 1L Amber AG1A 525.3 Chemical Blend 8148 NIGE ZLd8 00 **BP3R** Can also be a BP4N 8632 DG9Y DG6T DG9A TEGB BP1U BP3N\* BP3C ВР2И NEGB 120mL Coliform Na Thio BP4N Boz Unpreserved Jar 16oz Unpreserved Jar Ziplock Bag Tedlar Bag 1L HCL Clear Glass 2oz Unpreserved Jar 4oz Unpreserved Jar 8628 SEdB Terracore Kil Urqa BP2U WGKU WGDU ZPLC TEDL BG1H ě DEAB BP4U NaOH 250mL bottle 250mL Trizma 250mL Ammonium Acetate 250mL NH4SO4-NH4OH บเออ Na Thiosulfate Amber Bottle 11 unpreserved plastic 125mL HNO3 plastic 250mL HNO3 plastic 500mL HNO3 plastic 250mL H2SO4 plastic 500mL H2SO4 plastic ALDA 1L NaOH, Zn Acetate нгэ∀ 1L HNO3 plastic Profile #: COC Page TIDY CSE /COL / CHE BP3R BP1Z BP1N BP1B BP2U BP4N BP3N BP2N BP2N BP2S BP3C BP3T BP35 SEDV Armonium CI 250mL bottle BS 250mL H2SO4 amber glass BF 125mL EDA amber glass BF 250mL Na Thio amber glass BF Na Sulfite 500mL (blue Cap) BF Na Thiosulfate 1L bottle BF 1L HCI amber glass BF (NH4CI) 500mL unpres amber glass VC34 125mL unpres amber glass 4/28 ופוח /GSn UEDA ופיוח S6ĐO 40mL Ascorbic-HCI clear vial AG3U 40mL HCI clear vial AG2U 40mL NCI clear vial 40mL Sulfuic clear vial 1990 AG34 AG35 AG35 AG4E AG3T AG3T AG1T AG1A A6DCI 40mL Na Thiosulfate vial AC 40mL Citrate-Na Thiosulfate AC 40mL amber vial - TSP AC Ascorbic/Maleic Acid 40mL AC Na Thio 60mL Vial AC Work ID: 1.4 076K Ammonium CI/CuSO4 40mL 1L Unpres Jar (Con Ed) H650 L69d T690 8oz clear soil jar 4oz clear soil jar S69A H69A Additional Comments 269/ WG90 WG40 ne9/ DG9Y DG9P DG9A DG6T DG6T CG1U VGBC VG9U VG9H xitteN COC Line 9 page 19 of 20

8	Sa	mple C	Conditio	n Upon <mark>f</mark>	MO#	7025	4545	
Pace Analytical °	012 - 6 11			r	_	1020	Date: 05/1	1/23
1 door thary thour	Client Na	anne:	$\sim$	ŀ	PM: JSA		Date. O.	
		rcial Da	ace Dthe		CLIENT:	JWD		
Courier: Fed Ex UPS USPS Client		ividi Lik	ace Drue	t				
Tracking #:	- CMo	Coole int	tact. 🗆 Vas	No IN/A	Te	mperature Bla	nk Present: TY	es No
Custody Seal on Cooler/Box Present:	BS LINO					pe of Ice: We		
Packing Material: Bubble Wrap Bubble				<b>ី</b> 3			oling process has t	neniin
Thermometer Used: THO! THUS		on Factor:	re Correcte				kits placed in free	
Cooler Temperature(°C): 48	_ cooler i	emperacu	ie correcte	ou 6. 7.3		ite/ time Jussa	Kits placed in the	
Temp should be above freezing to 6.0°C USDA Regulated Soil (N/A, water sample	e)		Ċ.	Datesand Ini	-	n examining co		28/23
Did samples originate in a quarantine zone w	ithin the Ur	nited States	s: AL, AR, CA,	FL, GA, ID, LA, I	MS, NC, Di	d samples origina	ate from a foreign	source
NM NY OK OR SC TN TX or VA (check man)?	7 🗌 Yes	; □No			in:	oluding Hawaii a	nd Puerto Rico)?	JYes∟JN
If Yes to either question, fill out a Regulat	ed Soil Che	ecklist (F-I	LI-C-010) ar	nd include wit	th SCUR/COC I	aperwork.		
The second of th				6		COMMENTS	:	
Chain of Custody Present:	<b>∠</b> Yes	□No		1.				
Chain of Custody Filled Out:	⊠Yes	□No		2.				
Chain of Custody Relinquished:	Dives	□No	/ ME	3.		V		
Sampler Name & Signature on COC:	eyes.	□No	□N/A	4.		1		
Samples Arrived within Hold Time:	<b>⊠</b> Yes	□No		5.				
Short Hold Time Analysis (<72hr):	□Yes	DINO .		6.				
Rush Turn Around Time Requested:	□Yes	⊡No		7.			,	
Sufficient Volume: (Triple volume provided fo	r LeYes	□No		8.				20
Correct Containers Used:	elyes	□No		9.			ii 23	
-Pace Containers Used:	<b>MYes</b>	□No					<u> </u>	
Containers Intact:	<b>E</b> Yes	□No		10.			3300	(4)
Filtered volume received for Dissolved tests	□Yes	≛ □No	ØN/A		ote if sedimen	t is visible in the	dissolved container	
Sample Labels match COC:	Yes	□No	- 30	12.	8		10	
Includes date/time/ID/Matrix = SU/WI	االر	₩,	Many of the		- 1	Times :		31.15
All containers needing preservation have been	en □Yes	□No	DN/A	13. C	IHNO₃ □	H <sub>2</sub> SO₄ □Na	OH 🗆 HCI	ě
checked?	e <sup>2</sup>	( 8	*					
pH paper Lot #				Comple #				
All containers needing preservation are foun				Sample #				
in compliance with method recommendation		entle and	CNA	1				
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH>9 Sulfide,	□Yes	□No	QNA					
NAOH>12 Cyanide)	'n		*			2	8	
Exceptions: VOA, Coliform, TOC/DOC, Oil and	Grease,		20	Initial when c	omnleted- II o	t # of added	Date/Time p	reservative
DRD/8015 (water).	Ca.		. /	Innual When C		eservative:	added:	000(1-11
Per Method, VOA pH is checked after analysi		□No	ĽN/A	14.	· Ibu	Sci fativo.	dadod:	
Samples checked for dechlorination:	□Yes		LINA	14.				
KI starch test strips Lot #.	€ 0 <b>€</b> 0		/	Pos	itive for Res. C	alorine? V N		
Residual chlorine strips Lot #	TVoc	□No	CIN/A -	15. Pus	THE TOT INCO. U	aorato: 1 N		
SM 4500 CN samples checked for sulfide?	□Yes	LINU	LIN/A:	45	itive for Sulfide	? Y N		
Lead Acetate Strips Lot #	□Yes	□No	- EN/A	16.	and the bound			
Headspace in VOA Vials ( >6mm):	□Yes		EN/A	17.				
Trip Blank Present:	⊡Yes		EN/A	1.00	15		H*	
Trip Blank Custody Seals Present Pace Trip Blank Lot # (if applicable)	□162	LINU	Dally PL					
				Field Data Re	ouired?	- Y /	N	
Client Notification/ Resolution:					ate/Time:	25 W	1.	
Person Contacted: Comments/ Resolution:			593					
COLUMNIA RESUMBINI			) !					
-								
*								
*								

PM.(Project Manager) review is the immented electronically in LIMS

Face 575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526

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

Client Sample ID.: N-10149

Lab No.: 70256477001

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

Jericho Water District 125 Convent Rd.

Syosset, NY 11791 Attn To: Peter Logan Federal ID: 2902831

05/16/2023 09:02 AM Point N-10149 05/16/2023 09:55 AM Location Well 20

www.pacelabs.com

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.

**RUN TO WASTE** 

2 MIN

Collected:

Received:

Analytical Method: ASTM D723	7-10						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container
Cyanide, Free	<10.0		1	ug/L	200	05/19/2023 10:51	001 BP3C1/1
Analytical Method:EPA 180.1							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	<u>Container</u> :
Turbidity	<1.0		1	NTU	5	05/17/2023 12:49	001 BP1U1/1
Analytical Method:EPA 200.7							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container
Ca Hardness as CaCO3 (SM 2340B	25.7		1	mg/L		05/19/2023 7:12 PM	001 BP4N1/1
Calcium	10.3		1	mg/L		05/19/2023 7:12 PM	001 BP4N1/1
Iron	0.11		1	mg/L	0.3	05/19/2023 7:12 PM	001 BP4N1/1
Magnesium	3.7		1	mg/L		05/19/2023 7:12 PM	001 BP4N1/1
Manganese	< 0.010		1	mg/L	0.3	05/19/2023 7:12 PM	001 BP4N1/1
Sodium	12.7		1	mg/L		05/19/2023 7:12 PM	001 BP4N1/1
Tot Hardness asCaCO3 (SM 2340B	41.0	N3	1	mg/L		05/19/2023 7:12 PM	001 BP4N1/1
Zinc	<0.020		1	mg/L	5	05/19/2023 7:12 PM	001 BP4N1/1
Analytical Method:EPA 200.8							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container
Antimony	<0.40		1	ug/L	6	05/19/2023 12:11	001 BP4N1/1
Arsenic	<1.0		1	ug/L	10	05/19/2023 12:11	001 BP4N1/1
Barium	0.0068		1	mg/L	2	05/19/2023 12:11	001 BP4N1/1
Beryllium	< 0.30		1	ug/L	4	05/19/2023 12:11	001 BP4N1/1
Cadmium	<1.0		1	ug/L	5	05/19/2023 12:11	001 BP4N1/1
Chromium	< 0.0070		1	mg/L	0.1	05/19/2023 12:11	001 BP4N1/1
Copper	0.0088		1	mg/L	1.3	05/19/2023 12:11	001 BP4N1/1
Lead	<1.0		1	ug/L	15	05/19/2023 12:11	001 BP4N1/1
Mercury	<0.20		1	ug/L	2	05/19/2023 12:11	001 BP4N1/1
Nickel	0.0015		1	mg/L		05/19/2023 12:11	001 BP4N1/1
Selenium	<2.0		1	ug/L	50	05/19/2023 12:11	001 BP4N1/1
Silver	< 0.0010		1	mg/L	0.1	05/19/2023 12:11	001 BP4N1/1
Thallium	< 0.30		1	ug/L	2	05/19/2023 12:11	001 BP4N1/1

#### 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.

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

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.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

Pace\*
575 Broad Hollow Road, Melville, NY 11747

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

Type: Drinking Water
Origin: Raw Well
Routine

Sample Information:

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

Jericho Water District 125 Convent Rd. Syosset, NY 11791 Lab No. : 70256477001 Client Sample ID.: N-10149

Attn To: Peter Logan Federal ID: 2902831

> 05/16/2023 09:02 AM Point N-10149 05/16/2023 09:55 AM Location Well 20

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.

**RUN TO WASTE** 

2 MIN

Collected:

Received:

Analytical Method: EPA 300.0							
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Chloride	18.6		1	mg/L	250	05/26/2023 12:10	001 BP1U1/1
Fluoride	<0.10		1	mg/L	2.2	05/26/2023 12:10	001 BP1U1/1
Sulfate	12.0		1	mg/L	250	05/26/2023 12:10	001 BP1U1/1
Analytical Method: EPA 353.2							
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Nitrate as N	3.8		5	mg/L	10	05/16/2023 11:48	001 BP1U1/1
Nitrate-Nitrite (as N)	3.8		5	mg/L		05/16/2023 11:48	001 BP1U1/1
Analytical Method: EPA 353.2							
Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	05/16/2023 9:32 PM	001 BP1U1/1
Analytical Method:EPA 524.2							
Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1,1-Trichloroethane	0.60		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1-Dichloroethane	4.9		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1-Dichloroethene	0.75		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2,4-Trimethylbenzene	< 0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2-Dichlorobenzene	< 0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	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.

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

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.

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

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 Type: Drinking Water Origin: Raw Well Routine

**Sample Information:** 



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

**Jericho Water District** 125 Convent Rd. Syosset, NY 11791

Lab No.: 70256477001 Client Sample ID.: N-10149

Attn To: Peter Logan Federal ID: 2902831

Collected: 05/16/2023 09:02 AM Point N-10149 Received: 05/16/2023 09:55 AM Location Well 20

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.

**RUN TO WASTE** 

2 MIN

1,4-Dichlorobenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Benzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Bromodichloromethane	1.4		1	ug/L		05/19/2023 9:32 AM	001 VG9C1/2
Bromoform	1.0		1	ug/L		05/19/2023 9:32 AM	001 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Chlorodifluoromethane	<0.50	N3	1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Chloroform	3.7		1	ug/L		05/19/2023 9:32 AM	001 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Dibromochloromethane	1.3		1	ug/L		05/19/2023 9:32 AM	001 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Dichlorodifluoromethane	<0.50	L2	1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	05/19/2023 9:32 AM	001 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Styrene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Toluene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Total Trihalomethanes (Calc.)	7.4		1	ug/L	80	05/19/2023 9:32 AM	001 VG9C1/2
Trichloroethene	3.1		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	05/19/2023 9:32 AM	001 VG9C1/2
cis-1,2-Dichloroethene	1.6		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
cis-1,3-Dichloropropene	< 0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
m&p-Xylene	< 0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
n-Butylbenzene	< 0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	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.

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Test results meet the requirements of NELAC

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

unless otherwise noted.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

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

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

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

Jericho Water District 125 Convent Rd. Syosset, NY 11791 Lab No. : 70256477001 Client Sample ID.: N-10149

Attn To: Peter Logan Federal ID: 2902831

Collected: 05/16/2023 09:02 AM Point N-10149 Received: 05/16/2023 09:55 AM Location Well 20

www.pacelabs.com

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.

**RUN TO WASTE** 

2 MIN

sec-Butylbenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	94%		1	%REC		05/19/2023 9:32 AM	001 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	98%		1	%REC		05/19/2023 9:32 AM	001 VG9C1/2
Analytical Method: Field Metho	od						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Field Temperature	15.7	N3	1	deg C		05/16/2023 9:02 AM	001 BP1U1/1
Field pH	6.82	N3	1	Std. Units		05/16/2023 9:02 AM	001 BP1U1/1
Analytical Method:SM22 2120	)B						
Parameter(s)	Results	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Apparent Color	<5.0		1	units		05/16/2023 10:09	001 BP1U1/1
рН	6.6		1	Std. Units		05/16/2023 10:09	001 BP1U1/1
Analytical Method:SM22 2150	)B						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Odor @ 60 Degrees C	No odor observed		1		3	05/16/2023 11:11	001 AG2U1/1
Analytical Method:SM22 2320	)B						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Alkalinity, Total as CaCO3	21.8		1	mg/L		05/23/2023 10:11	001 BP1U1/1
Analytical Method:SM22 2330	) LSI						
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Corrosivity	-2.42		1			05/26/2023 3:43 PM	001 BP1U1/1
Analytical Method:SM22 2540	OC .						
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Total Dissolved Solids	117	D6	1	mg/L		05/18/2023 6:47 PM	001 BP1U1/1
Analytical Method:SM22 4500	NH3 H						
		<b>-</b>					

# Qualifiers:

Parameter(s)

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.

<u>Results</u>

Qualifier

<u>D.F.</u>

ND - Not Detected at or above adjusted reporting limit.

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Jennifer Aracri

<u>Limit</u>

Test results meet the requirements of NELAC unless otherwise noted.

Analyzed:

Container:

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<u>Units</u>

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

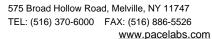
Results for the samples and analytes requested

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

Sample Information:

Type: Drinking Water Origin: Raw Well





Jericho Water District 125 Convent Rd. Syosset, NY 11791 Lab No. : 70256477001 Client Sample ID.: N-10149

Attn To: Peter Logan Federal ID: 2902831

> 05/16/2023 09:02 AM Point N-10149 05/16/2023 09:55 AM Location Well 20

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.

**RUN TO WASTE** 

2 MIN

Collected:

Received:

Nitrogen, Ammonia	<0.10		1	mg/L		05/18/2023 12:38	001 BP1U1/1
Analytical Method:SM22 5540C		Prep Method:	SM22 55	40C	Prep Date:	05/17/2023 10:02	
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
LAS Molecular Weight, g/mol	320		1			05/17/2023 10:34	001 BP1U1/1
MBAS, Calculated as LAS	< 0.080		1	mg/L		05/17/2023 10:34	001 BP1U1/1

#### 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. Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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Pace

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

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

Jericho Water District 125 Convent Rd. Syosset, NY 11791 Lab No. : 70256477003 Client Sample ID.: N-10149

Attn To: Peter Logan Federal ID: 2902831

Collected:

Received:

05/16/2023 09:30 AM Point N-10149 05/16/2023 09:55 AM Location Well 20

Collected By CLIENT

Analytical Method:EPA 522		Prep Method:	EPA 522		Prep Date: 05/19/2023 1:45 PM			
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
1,4-Dioxane (p-Dioxane) Surr: 1,4-Dioxane-d8 (S)	<b>1.9*</b> 107%		1	ug/L %REC	1	05/20/2023 11:11 05/20/2023 11:11	003 AG2R1/2 003 AG2R1/2	
Analytical Method:EPA 525.3		Prep Method:	EPA 525.	3	Prep Date	£: 05/19/2023 1:16 PM		
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
Simazine	<0.070		1	ug/L	4	05/23/2023 12:26	003 AG1A1/1	
Surr: 1,3-Dimethyl-2-nitrobenzene(S)	78%		1	%REC		05/23/2023 12:26	003 AG1A1/1	
Surr: Benzo(a)pyrene-d12 (S)	84%		1	%REC		05/23/2023 12:26	003 AG1A1/1	
Surr: Triphenylphosphate (S)	113%		1	%REC		05/23/2023 12:26	003 AG1A1/1	

#### 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

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:**

70256477

# **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

All parameters are reported to meet the NYS ELAP required detection limits (RDL) for drinking water analyses. For the analytes listed below, the reporting limit is below the laboratory verified limit of quantification (LOQ) but greater than the method detection limit (MDL); values are estimated.

Method	Method	Unit	MDL*	RDL	LOQ
505	Toxaphene	ug/L	0.57	1	2.5
505	Chlordane	ug/L	0.096	0.2	0.5
525.2	Simazine	ug/L	0.031	0.07	0.1
525.2	Benzo(a)pyrene	ug/L	0.017	0.02	0.1
549.2	Diquat	ug/L	0.165	0.4	1

<sup>\*</sup> Determined annually; subject to change but must always be below the RDL and LOQ.

Date Reported: 05/31/2023 page 7 of 37



# WorkOrder:

70256477

# **Additional Qualifiers**

- D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
- 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.

Date Reported: 05/31/2023 page 8 of 37



May 30, 2023

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

Project Location: POC/IOC/PERC/PFAS 5/16

Client Job Number: Project Number: 70256477

Laboratory Work Order Number: 23E2613

Enclosed are results of analyses for samples as received by the laboratory on May 18, 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

PURCHASE ORDER NUMBER:

REPORT DATE: 5/30/2023

PROJECT NUMBER: 70256477

#### ANALYTICAL SUMMARY

23E2613 WORK ORDER NUMBER:

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

PROJECT LOCATION: POC/IOC/PERC/PFAS 5/16

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-10149 FB	23E2613-01	Field Blank		EPA 533	
N-10149	23E2613-02	Drinking Water		EPA 533	



#### 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:

PF-18

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

Analyte & Samples(s) Qualified:

M7PFUnA

23E2613-02[N-10149]

MPFDoA

23E2613-02[N-10149]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-8:2FTS

B340982-BS1

M8PFOS

23E2613-02[N-10149]

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

Lua Watslengton



Project Location: POC/IOC/PERC/PFAS 5/16 Sample Description: Work Order: 23E2613

Date Received: 5/18/2023
Field Sample #: N-10149 FB

Sampled: 5/16/2023 09:02

Sample ID: 23E2613-01

MPFDoA

Sample Matrix: Field Blank		Semi	volatile Organic Co	ompounds by -	LC/MS-MS				
		MCI	_/SMCL				Date	Date/Time	
Analyte	Results		ORSG Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8	_	1		EPA 533	5/22/23		JR2
,			ng/L					5/23/23 10:54	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Nonafluoro-3,6-dioxaheptanoic acid	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
(NFDHA) Perfluoroheptanoic acid (PFHpA)	ND	1.8	# a /I	1		EPA 533	5/22/23	5/23/23 10:54	JR2
			ng/L						
Perfluorooctanoic acid (PFOA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorononanoic acid (PFNA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Surrogates		% Recovery	Recovery Lin	nits	Flag/Qual				
M2-4:2FTS		63.4	50-200					5/23/23 10:54	
M2-8:2FTS		134	50-200					5/23/23 10:54	
MPFBA		88.8	50-200					5/23/23 10:54	
M3HFPO-DA		84.8	50-200					5/23/23 10:54	
M6PFDA		92.9	50-200					5/23/23 10:54	
M3PFBS M7PFUnA		83.0	50-200 50-200					5/23/23 10:54 5/23/23 10:54	
M2-6:2FTS		83.1 93.6	50-200					5/23/23 10:54	
M5PFPeA		83.1	50-200					5/23/23 10:54	
M5PFHxA		80.0	50-200					5/23/23 10:54	
M3PFHxS		82.2	50-200					5/23/23 10:54	
M4PFHpA		82.4	50-200					5/23/23 10:54	
M8PFOA		86.4	50-200					5/23/23 10:54	
M8PFOS		84.0	50-200					5/23/23 10:54	
M9PFNA		87.7	50-200					5/23/23 10:54	

5/23/23 10:54

50-200

86.3



Project Location: POC/IOC/PERC/PFAS 5/16 Sample Description: Work Order: 23E2613

Date Received: 5/18/2023
Field Sample #: N-10149

Sampled: 5/16/2023 09:30

Sample ID: 23E2613-02
Sample Matrix: Drinking Water

Sample Matrix: Drinking Water		Se	emivolatile Organic Co	mpounds by - l	LC/MS-MS				
		N	ICL/SMCL				Date	Date/Time	
Analyte	Results	RL M	MA ORSG Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analys
Perfluorobutanoic acid (PFBA)	5.9	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoropentanoic acid (PFPeA)	3.7	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorohexanoic acid (PFHxA)	3.1	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8	_	1		EPA 533	5/22/23	5/23/23 11:23	JR2
· · · · · · · · · · · · · · · · · · ·			ng/L						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) Hexafluoropropylene oxide dimer acid	ND ND	1.8	ng/L	1		EPA 533 EPA 533	5/22/23 5/22/23	5/23/23 11:23 5/23/23 11:23	JR2 JR2
(HFPO-DA)			C						
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoroheptanoic acid (PFHpA)	2.3	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorooctanoic acid (PFOA)	2.8	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorononanoic acid (PFNA)	ND	1.8	ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Surrogates		% Recov			Flag/Qual				
M2-4:2FTS		50.2	50-200	11.5	ring/Quur			5/23/23 11:23	
M2-8:2FTS		52.3	50-200					5/23/23 11:23	
MPFBA		77.6	50-200					5/23/23 11:23	
M3HFPO-DA		77.6	50-200					5/23/23 11:23	
M6PFDA		52.0	50-200					5/23/23 11:23	
M3PFBS		79.0	50-200					5/23/23 11:23	
M7PFUnA		46.4 *	50-200		PF-18			5/23/23 11:23	
M2-6:2FTS		67.4	50-200					5/23/23 11:23	
M5PFPeA		74.4	50-200					5/23/23 11:23	
M5PFHxA		71.8	50-200					5/23/23 11:23	
M3PFHxS		72.7	50-200					5/23/23 11:23	
M4PFHpA		71.0	50-200					5/23/23 11:23	
M8PFOA		66.9	50-200					5/23/23 11:23	
M8PFOS		46.9 *			S-29			5/23/23 11:23	
M9PFNA		58.3	50-200					5/23/23 11:23	
MPFDoA		43.5	50-200		PF-18			5/23/23 11:23	



# Sample Extraction Data

Prep Method:EPA 533 Analytical Method:EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E2613-01 [N-10149 FB]	B340982	278	1.00	05/22/23
23E2613-02 [N-10149]	B340982	278	1.00	05/22/23



# QUALITY CONTROL

Spike

Source

RPD

%REC

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

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B340982 - EPA 533										
Blank (B340982-BLK1)				Prepared: 05	5/22/23 Analy	yzed: 05/23/2	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							
Perfluoropetanesulfonic 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	29.8		ng/L	37.0		80.6	50-200			
Surrogate: M2-8:2FTS	63.7		ng/L	37.8		168	50-200			
Surrogate: MPFBA	34.1		ng/L	39.4		86.6	50-200			
Surrogate: M3HFPO-DA	31.3		ng/L	39.4		79.6	50-200			
Surrogate: M6PFDA	34.1		ng/L	39.4		86.5	50-200			
Surrogate: M3PFBS	33.9		ng/L	36.7		92.4	50-200			
Surrogate: M7PFUnA	31.5		ng/L	39.4		79.8	50-200			
Surrogate: M2-6:2FTS	36.6		ng/L	37.5		97.8	50-200			
Surrogate: M5PFPeA	33.3		ng/L	39.4		84.5	50-200			
Surrogate: M5PFHxA	31.1		ng/L	39.4		78.9	50-200			
Surrogate: M3PFHxS	33.4		ng/L	37.3		89.5	50-200			
Surrogate: M4PFHpA	31.4		ng/L	39.4		79.6	50-200			
Surrogate: M8PFOA	33.4		ng/L	39.4		84.8	50-200			
Surrogate: M8PFOS	32.1		ng/L	37.8		85.0	50-200			
Surrogate: M9PFNA	33.0		ng/L	39.4		83.7	50-200			
Surrogate: MPFDoA	31.8		ng/L	39.4		80.7	50-200			
LCS (B340982-BS1)				Prepared: 05	5/22/23 Analy	yzed: 05/23/2	23			
Perfluorobutanoic acid (PFBA)	1.91	1.9	ng/L	1.91		99.9	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.51	1.9	ng/L	1.69		89.5	50-150			
Perfluoropentanoic acid (PFPeA)	1.72	1.9	ng/L	1.91		90.0	50-150			
Perfluorohexanoic acid (PFHxA)	1.69	1.9	ng/L	1.91		88.4	50-150			
11Cl-PF3OUdS (F53B Major)	1.51	1.9	ng/L	1.80		83.9	50-150			
9Cl-PF3ONS (F53B Minor)	1.74	1.9	ng/L	1.78		98.1	50-150			



# 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 B340982 - EPA 533										
.CS (B340982-BS1)				Prepared: 05	5/22/23 Analy	zed: 05/23/2	23			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.69	1.9	ng/L	1.80		93.8	50-150			
Hexafluoropropylene oxide dimer acid HFPO-DA)	1.61	1.9	ng/L	1.91		84.2	50-150			
3:2 Fluorotelomersulfonic acid (8:2FTS A)	1.49	1.9	ng/L	1.83		81.4	50-150			
erfluorodecanoic acid (PFDA)	1.73	1.9	ng/L	1.91		90.9	50-150			
erfluorododecanoic acid (PFDoA)	2.28	1.9	ng/L	1.91		119	50-150			
erfluoro(2-ethoxyethane)sulfonic acid PFEESA)	1.62	1.9	ng/L	1.70		95.6	50-150			
erfluoroheptanesulfonic acid (PFHpS)	1.62	1.9	ng/L	1.82		88.7	50-150			
:2 Fluorotelomersulfonic acid (4:2FTS A)	1.45	1.9	ng/L	1.78		81.5	50-150			
erfluorohexanesulfonic acid (PFHxS)	1.52	1.9	ng/L	1.75		87.2	50-150			
erfluoro-4-oxapentanoic acid (PFMPA)	1.68	1.9	ng/L	1.91		88.0	50-150			
erfluoro-5-oxahexanoic acid (PFMBA)	1.69	1.9	ng/L	1.91		88.8	50-150			
:2 Fluorotelomersulfonic acid (6:2FTS A)	1.20	1.9	ng/L	1.81		66.5	50-150			
Perfluoropetanesulfonic acid (PFPeS)	1.59	1.9	ng/L	1.79		88.4	50-150			
Perfluoroundecanoic acid (PFUnA)	2.11	1.9	ng/L	1.91		110	50-150			
Ionafluoro-3,6-dioxaheptanoic acid NFDHA)	1.48	1.9	ng/L	1.91		77.5	50-150			
erfluoroheptanoic acid (PFHpA)	1.72	1.9	ng/L	1.91		89.9	50-150			
Perfluorooctanoic acid (PFOA)	1.64	1.9	ng/L	1.91		85.8	50-150			
erfluorooctanesulfonic acid (PFOS)	1.66	1.9	ng/L	1.76		93.8	50-150			
erfluorononanoic acid (PFNA)	1.43	1.9	ng/L	1.91		74.9	50-150			
urrogate: M2-4:2FTS	32.0		ng/L	35.8		89.4	50-200			
urrogate: M2-8:2FTS	87.7		ng/L	36.6		240 *	50-200			S-29
urrogate: MPFBA	36.9		ng/L ng/L	38.2		96.6	50-200			3 <b>2</b> ,
urrogate: M3HFPO-DA	32.6		ng/L	38.2		85.5	50-200			
urrogate: M6PFDA	41.2		ng/L	38.2		108	50-200			
urrogate: M3PFBS	35.5		ng/L	35.6		99.9	50-200			
Surrogate: M7PFUnA	35.4		ng/L	38.2		92.6	50-200			
Surrogate: M2-6:2FTS	36.9		ng/L	36.3		102	50-200			
Surrogate: M5PFPeA	37.1		ng/L	38.2		97.1	50-200			
Surrogate: M5PFHxA	36.1		ng/L	38.2		94.6	50-200			
Surrogate: M3PFHxS	33.7		ng/L	36.2		93.0	50-200			
Surrogate: M4PFHpA	35.6		ng/L	38.2		93.4	50-200			
Surrogate: M8PFOA	36.3		ng/L	38.2		95.2	50-200			
Surrogate: M8PFOS	34.1		ng/L	36.6		93.2	50-200			
Surrogate: M9PFNA	37.6		ng/L	38.2		98.6	50-200			
urrogate: MPFDoA	34.1		ng/L	38.2		89.2	50-200			
.CS Dup (B340982-BSD1)				•	5/22/23 Analy					
Perfluorobutanoic acid (PFBA)	2.04	2.0	ng/L	1.97		103	50-150	6.66	50	
Perfluorobutanesulfonic acid (PFBS)	1.60	2.0	ng/L	1.74		92.0	50-150	5.94	50	
erfluoropentanoic acid (PFPeA)	1.94	2.0	ng/L	1.97		98.5	50-150	12.2	50	
erfluorohexanoic acid (PFHxA)	1.74	2.0	ng/L	1.97		88.3	50-150	3.11	50	
1Cl-PF3OUdS (F53B Major)	1.58	2.0	ng/L	1.86		85.2	50-150	4.84	50	
Cl-PF3ONS (F53B Minor)	1.89	2.0	ng/L	1.84		103	50-150	8.01	50	
,8-Dioxa-3H-perfluorononanoic acid ADONA)	1.96	2.0	ng/L	1.86		105	50-150	14.8	50	
lexafluoropropylene oxide dimer acid HFPO-DA)	1.77	2.0	ng/L	1.97		89.6	50-150	9.38	50	
:2 Fluorotelomersulfonic acid (8:2FTS A)	1.77	2.0	ng/L	1.89		93.3	50-150	16.8	50	
erfluorodecanoic acid (PFDA)	1.88	2.0	ng/L	1.97		95.3	50-150	7.89	50	
Perfluorododecanoic acid (PFDoA)	2.27	2.0	ng/L	1.97		115	50-150	0.416	50	



# 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 B340982 - EPA 533										
LCS Dup (B340982-BSD1)				Prepared: 05	5/22/23 Analy	yzed: 05/23/2	23			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.71	2.0	ng/L	1.75		97.4	50-150	5.07	50	
Perfluoroheptanesulfonic acid (PFHpS)	1.59	2.0	ng/L	1.88		84.7	50-150	1.43	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.47	2.0	ng/L	1.84		79.6	50-150	0.794	50	
Perfluorohexanesulfonic acid (PFHxS)	1.60	2.0	ng/L	1.80		88.5	50-150	4.74	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	1.73	2.0	ng/L	1.97		88.0	50-150	3.29	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.81	2.0	ng/L	1.97		92.1	50-150	6.87	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.16	2.0	ng/L	1.87		61.8	50-150	4.08	50	
Perfluoropetanesulfonic acid (PFPeS)	1.47	2.0	ng/L	1.85		79.4	50-150	7.45	50	
Perfluoroundecanoic acid (PFUnA)	2.35	2.0	ng/L	1.97		119	50-150	11.1	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.68	2.0	ng/L	1.97		85.2	50-150	12.7	50	
Perfluoroheptanoic acid (PFHpA)	1.76	2.0	ng/L	1.97		89.4	50-150	2.67	50	
Perfluorooctanoic acid (PFOA)	1.63	2.0	ng/L	1.97		82.7	50-150	0.436	50	
Perfluorooctanesulfonic acid (PFOS)	1.52	2.0	ng/L	1.82		83.6	50-150	8.34	50	
Perfluorononanoic acid (PFNA)	1.94	2.0	ng/L	1.97		98.5	50-150	30.4	50	
Surrogate: M2-4:2FTS	31.0		ng/L	37.0		83.8	50-200			
Surrogate: M2-8:2FTS	55.5		ng/L	37.8		147	50-200			
Surrogate: MPFBA	35.3		ng/L	39.4		89.6	50-200			
Surrogate: M3HFPO-DA	34.0		ng/L	39.4		86.2	50-200			
Surrogate: M6PFDA	38.1		ng/L	39.4		96.7	50-200			
Surrogate: M3PFBS	35.6		ng/L	36.7		96.9	50-200			
Surrogate: M7PFUnA	33.7		ng/L	39.4		85.5	50-200			
Surrogate: M2-6:2FTS	38.0		ng/L	37.5		101	50-200			
Surrogate: M5PFPeA	34.7		ng/L	39.4		88.2	50-200			
Surrogate: M5PFHxA	34.2		ng/L	39.4		86.8	50-200			
Surrogate: M3PFHxS	36.0		ng/L	37.4		96.3	50-200			
Surrogate: M4PFHpA	33.5		ng/L	39.4		85.1	50-200			
Surrogate: M8PFOA	35.5		ng/L	39.4		90.2	50-200			
Surrogate: M8PFOS	34.6		ng/L	37.8		91.6	50-200			
Surrogate: M9PFNA	33.9		ng/L	39.4		86.0	50-200			
Surrogate: MPFDoA	32.7		ng/L	39.4		83.0	50-200			



# FLAG/QUALIFIER SUMMARY

	QC result is outside of established fillings.
†	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.
PF-18	Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.
S-29	Extracted Internal Standard is outside of control limits



# CERTIFICATIONS

# Certified Analyses included in this Report

Perfluorononanoic acid (PFNA)

**Analyte** Certifications

Certifications
NH,NY,VT-DW,ME,NJ,PA

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

Code	Description	Number	Expires
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	06/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023

NH,NY,VT-DW,ME,NJ,PA

	<u> </u>	Internal Transfer Chain of Custody	or Chair	of Custod			No. of the last of						
Northorder: 70256477   Workorder Name: POC/IOC/PERC/PFAS 5/16   Owner Received Date: 6/16/2023   Results Requested By: 8/16/2023   Results Results Requested By: 8/16/2023   Results Res				Samples	Pre-Logged	into eCOC.	State (	Of Origin:	× ×			Pace	Analytical
Page   New England   Page	Wor	korder: 70256477	Workorder N	Vame: POC/IO	C/PERC/PFA	S 5/16	Owner		∆ res Date:	5/16/2023	/ Results Reque	ested By	
Jennich Austrick   Pace New England   Pace New England   Pace New England   Pace New England   Pace Analytical Melville   Pace New England   Pac	Repol	4.70		Subcontraci	То					Requester	d Analysis		
Sample Collect  Type Date/Time Lab iD Matrix  FS 5/16/2023 09:02 70256477002 Drinking 1 X  PS 5/16/2023 09:03 70256477003 Drinking 1 X  PS 5/16/2023 09:04 70256477003 Drinking 1 X  Date/Time Received By Date/Time  Cq225-12-23 25 Compound List	Jenni Pace 575 E Melvil	fer Aracri Analytical Melville Sroad Hollow Road Ile, NY 11747 9 (631)694-3040		Pace N 39 Spr. East Lo Phone	lew England Lice St. Ingmeadow, M. (413)525-2332	A 01028							
1 N-10149 FB   Sample   Collect   Lab ID   Matrix   Early   Dinking   1   N-10149 FB   PS   5/16/2023 09:30   70256477002   Dinking   1   X   X							Served Conta						
1 N-10149 FB		Sample ID	Sample Type	ne me	Lab ID	Other							LAB USE ONLY
2 N-10149 PS 5/16/2023 09:30 70256477003 Drinking 1 X X X X X X X X X X X X X X X X X X	-	L-10149 FB	PS	-	70256477002	ـــ		×					
3	2	1-10149	Sd	1	70256477003			×					
Transfers Released By Date/Time Received By Date/Time Comments  2 3 Cooler Temperature on Receipt 2 ** ** ** ** ** ** ** ** ** ** ** ** *										A VANA A A VANA			
Transfers     Released By     Date/Time     Comments       1     Or 2 3 - 18-23     25 Compound List       3     Chiefody Seal Vor No.     Or No.								N. H. L.					
Man Mal Cott 2 State of List 2 State	49/3			l Party William	hamila						Comments		
2 Custody Soal V or W. Bosoined at the Control of t	<u> </u> -			Care	Veceived D	100		Date/ I Ime		I punoduo	List		
C.) of Circladu Soal V or N. Bosolinad and Los V. C.	2		El Constantino de la Constantino della Constanti		100	( / W (				4			
2   % Circhardu Saal V av M	3								,				
	Cool	er Temperature on	Receipt 2.1	°C Cust	V Seal V	N	Door	ad ac box	13	1			

\*\*\*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.

Page 1 of 1

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

# 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



Client	Pacc-NY	1 <sub>34</sub> *		ř	progent to	tre attent	ion of the C	Hent - True or Fa	ise 		.3
	7075647	7			8.		• ••			' True	False
-	RCP Required No	<del></del>				Rec	eived on	ice			
	rable Package Req/	10		w:		Rece	eived in C	ooler		D	
	on NY	<del>y </del>	٨		<del></del>	*	ody Seal:		TIME	П	Ħ
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	eet By / Date / Time		****	27 Pr. 41	- 16-0 0	<u>is the</u>	e enougi	Volume			
	ature Method9		<u> </u>	<u>5</u>	at at a larger time	Prope	Media/(	ontainer Use	d	团	
	< 6° C Actual Tem					Splittir	e Samole	s Required	*5		T/A
Rush San	nples: Yes /No Notify		1			MS/MS			***************************************	Ħ.	
Short Ho	ld: Yes / No Notify		·i	**						<u> </u>	
Ma	toe recording Compl	/505	<u>۔ نیب</u>	1 - A CO		Trip Bla	inks				
<u>NO</u>	tes regarding Sampl	es/CUC	OUISK	ie di SU		Lab to !	ilters.			<u> </u>	
<b> </b>			:		_	COC Let	ible *	* 49-		0	
<b> </b>	No.	4.						Check all inc	luded)	-	
l			<b>&gt;</b> <b>`</b>	101		Client .		Analysis 🛮	Samo	ler Name	M.
						Pro <del>je</del> ct		IDs 🔟	_		- F
l					-	, , Oject		103	COREC	tion Date/Ti	me 🗀
					4	All Sam	ples Pro	per pH:	(N/A)		П
<u></u>						٠.					Second .
	iner (Circle when applicable	e) Unf	HCI	HNO3	H2SO4	NaOH	Trizma	a NaS2O3	Other Pr	eservative	
1L 500 m	Amber Plastic  Amber Plastic	<u> </u>	<u> </u>	<u> </u>							
250 ml	<del></del>			<del> </del>		ļ	<del> </del>		7		
<del></del>	Amber Clear Plastic		+	1	,	<b></b>	<del></del>		2 01Mp	onium ac	ctele
160z	Amber Clear						1				
8oz	Amber Clear		<b>†</b> —				1		,		
40z	Amber Clear						1				
202	Amber Class										
	Amber Clear										
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Col/Bac Flashpo Plastic I SOC Kit	teria int Bag										
Col/Bac Flashpo Plastic I SOC Kit Perchlo	teria int Bag										
Col/Bac Flashpo Plastic I SOC Kit Perchlo Encore	teria int Bag										
Col/Bac Flashpo Plastic I SOC Kit Perchlo	rate	Unp	HCI	MeOR	Bicu	fate		Thiosulfate	Sulfavio	T Other	
Col/Bac Flashpo Plastic I SOC Kit Perchlo Encore	rate	UnP	нсі	МеОн	Bisu	. ·		Thiosulfate	Sulfuric	Other	

DELIVERED

# Thursday

5/18/2023 at 9:23 am

Signed for by: A.ALYSSA

## DELIVERY STATUS

Delivered 🚱

### TRACKING ID

647678500778 🖉 🏠

#### FROM

MELVILLE, NY US

Label Created 5/17/2023 3:12 PM

## PACKAGE RECEIVED BY FEDEX

MELVILLE, NY 5/17/2023 5:48 PM

#### IN TRANSIT

WINDSOR LOCKS, CT 5/18/2023 7:35 AM

#### OUT FOR DELIVERY

WINDSOR LOCKS, CT 5/18/2023 8:43 AM

#### DELIVERED

EAST LONGMEADOW, MA US

Delivered 5/18/2023 at 9:23 AM

↓ View travel history

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL

MORE OPTIONS

Manage Delivery

**SUBMIT** 

Shipment facts

WO#: 70256477 70256477

747

Client Info:

Name or Code: Jeritho Water ily (On Vint Rd Syosset Address:\_\_

0848-176

Proj. # or (Name):

	<u>1</u> 9
 BIII 10:	Copies

# Sample Request Form PUBLIC WATER SUPPLIER

5/16/23 Date: Accepted By: -Cooler Temp: Collected By:

waste
7
Ran to

☐ WELL RUN TO SYSTEM

☑YES ☐ NO VOC'S PRESERVED WITH HCI

ole Types	Purpose	Origin	Ä
Potable Water	RO - Routine	D - Distribution	AS
Groundwater	RE - Resample	RW - Raw Well	GA
Surface Water	S - Special	TW - Treated Well	Z
Wanto Water		T - Tank	Щ
Vasic vale		MW - Monitoring Well	. (
Aqueous		l - Influent	) <sup>27</sup>
Soll		E - Effluent	

ĺ	Sample Types	Purpose	Origin	Treatment Types
I	PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
	GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
Ĭ	SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
Ĩ	WW - Waste Water		T - Tank	FE - Iron Removal Plant
I	AQ - Aqueous		MW - Monitoring Well	O - Other
Ĭ	S - Soil		F - Efflient	n '
		A CONTRACTOR OF THE PARTY OF TH		The second secon

Copies Io.	2		ח	No.	1448		E - Effluent	
ğ	Sample					Field Readings	Analusis	N de L
Collected:	Type	Location	Origin	Type ruipose		Cl <sub>2</sub> pH/Temp	Siction	
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Piv	Well 20 N-10149	RW	Ro	)		Bac O min	
							Bac 2 min	
50.6							Bac 5 min	
5/16/23							Bac 10 min	
5/16/23							Bac 30 min	
5/16/23							70d	100
S/16/23						Jr.51/88.9	6.82/15.72 IOC W/Perchlorate	130 48
5/16/23							1,4 Dioxane	-00x
5/16/23	_						Pfos/Pfoa 533 method w/FB	20 C
S/16/28 9:30	>	>	>	7	>		Simazine	300
							, unit	
Remarks:								

Due Date: 05/26/23 WO#: 70256477 Sender Initials 202 Non-aqueous Llquid dN Drinking Water NE Matrix CLIENT: JWD 27dZ PM: JSA ndow MEKIT MEEN Use Point Numbe Add SCLOGFD t. 1545 DG9Y Citrate/Na Thiosulfate 40mL
DG6T Na Thiosulfate 60mL vial
DG6M MonoCtActetic/Na Thio 60ml AG3T Na Thiosulfate 250mL bottle BP1B Na Thiosulfate Amber bottle AG1T Na Thiosulfate 1L Amber AG1A 525.3 Chemical Blend 500mL unpres amber glass AG3U 250mL unpres amber glass BP1U 1L unpreserved plastic BP3N\* 250mL HNO3 plastic BP3C 250mL Sodium Hydroxide VG9T 40mL Na Thio amber vial 8148 NEGE ZIde REGE Can also be a BP4N 9548 DG9A 18:48 DEde NZdE NEde SP5T 120mL Coliform Na Thio R Terracore Kit 8oz Unpreserved Jar 16oz Unpreserved Jar NEGE 2oz Unpreserved Jar 4oz Unpreserved Jar Tedlar Bag 1L HCL Clear Glass SZdE SECT Ziplock Bag nide nzde ō ueae Db40 125mL unpreserved plastic Na Thiosulfate Amber Bottle 250mL Ammonium Acetate 250mL NH4SO4-NH4OH 1L unbreserved plastic 125ml; HNO3 plastic 250ml; HNO3 plastic 500ml; HNO3 plastic 250mL H2SO4 plastic 500mL H2SO4 plastic NaOH:250mL bottle 250mL Trizma ALDA 1L NaOH, Zn Acetate HLDI Profile #; COC Page AGDA CVE BP3C BP3T Anmonium Cl 250mL bottle E 250mL H2SO4 amber glass veav 250mL Na Thio amber glass Na Suffite 500mL (blue Cap) 125mL EDA amber glass Na Thiosulfate 1L bottle 1L HCI amber glass SESC AG1H AG1A 1990 y690 Na Thiosulfate vial Citrate-Na Thiosulfate nonium CI/CuSO4 40mL d690 Year IL Unpres Jar (Con Ed) 1690 Work ID: POC 8oz clear soil jar 4oz clear soil jar S69/ ACC BH 069A 069/ WG40 = page 25 of 37 switz 855

> Pleuse log-in the 2nd sample as

9

Pace® Analytical Services, LLC

Qualitax ID: 152532

Client Name:    Client Name:   Commercial	WO#:702564//  PM: JSA Due Date: 05/26/23  CLIENT: JWD  No NA Temperature Blank Present: Yes No
racking #: fustody Seal on Cooler/Box Present:Yes NoSeals intact:Yes lacking Material:Bubble Wrao Bubble BagsZiplocConeOther hermometer Used:	☐ No ☐N/A Temperature Blank Present: ☐Yes☐No
Sustody Seal on Cooler/Box Present: Mes No Seals intact: Yes acking Material: Bubble Wrap Bubble Bags Ziploc one Other hermometer Used: THUS THUS Correction Factor:	
acking Material: _Bubble Wrao _ Bubble Bags _ Ziploc _ Gone _ Other hermometer Used: _ THU: Correction Factor: `	
acking Material: _Bubble Wrao _ Bubble Bags _ Ziploc _ Gone _ Other hermometer Used: _ THU: Correction Factor: `	
hermometer Used: THO! THILE Correction Factor: -0:	er Type of Ice: Wet (Blue) None
1141 1121	Samples on ice, cooling process has begon
ooler Temperature(°C): 4.3 Cooler Temperature Corrected	1(°C): /4·O Date/Time 5035A kits placed in freezer
emp should be above freezing to 6.0°C	and with the same of the least
	Date-and Initials of person examining contents: $SH = 5/16/2$
id samples originate in a quarantine zone within the United States: AL, AR, CA, FI	FL, GA, ID, LA, MS, NC. Did samples originate from a foreign source
IM NY DK DR SC TN TX OCVA (check man)? Yes No	including. Hawaii and Puerto Rico)? U Yes U N
f Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and	d include with SCUR/COC paperwork.
	COMMENTS:
Chain of Custody Present: Siyes ONo . 1.	1.
ACTURED THE FILE	2
Addit of Costody Reiniquistica.	3.
diffici fidific & additatili b off Coc.	4.
Samples Arrived within Hold Time: DYES DNO 5	5.
MOLE HOLD THE MIGHT STATE TO THE STATE OF TH	6.
Rush Turn Around Time Requested: DYes DNO 7.	7.
Sufficient Volume: (Triple volume provided for LaYes 🗆 No 8	8.
Correct Containers Used:	9.
-Pace Containers Used: Ottes ONe	· · · · · · · · · · · · · · · · · · ·
Source Files Files	10.
mored totalle received for bissoired tosts	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: Sample Labels match COC:	12.
Includes date/time/40, Matrix SI /W / OIL	The second secon
ar containers needing preservation have been the	13. $\square HNO_3$ $\square H_2SO_4$ $\square NaOH$ $\square HCT$
checked? OH paper Lot # 14CZ93025	
1 1 1 2 2 2 2 2	Sample #
at containers needing preservation are round to be	·
n compliance with method recommendation?  HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCI, NaOH>9 Sulfide,  OYes ONO ON/A	
VAOH>12 Cyanide)	
exceptions: VOA, Coliform, TOC/DOC, Oil and Grease,	
DRO/8015 (water).	Initial when completed:  Lot # of added   Date/Time preservative
Per Method, VOA pH is checked after analysis	preservative: added:
Samples checked for dechlorination:     Nes	14.
G starch test strips Lot #. (4-860	550
Residual chlorine strips Lot #	Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?   ONO ON/A: 15	15.
SM 4500 CN samples checked for sulfide? DYes DNo DN/A 15 Lead Acetate Strips Lot # 14-982	Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	16.
Trip Blank Present: OYes ONO ON/A II	$\eta_{\cdot}$
Trip Blank Custody Seals Present	
Pace Trip Blank Lot # (if applicable):	
Client Notification/ Resolution:	Field Data Required? Y / N
middle indoord	Date/Time:
Person Contacted:	
Person Contacted:	
Person Contacted:	
Person Contacted:	





301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | <a href="https://www.alsglobal.com">www.alsglobal.com</a>

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DOD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

Analytical Results Report For

Pace Analytical Services, Inc.-NY

Project <u>70256477</u>
Workorder <u>3303824</u>

Report ID 247120 on 5/26/2023

#### **Certificate of Analysis**

Enclosed are the analytical results for samples received by the laboratory on May 18, 2023.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global. ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057: 717-944-5541.

Recipient(s):

Tara Bernier - Pace Analytical Services, Inc.-NY Reporting - Pace Analytical Services, Inc.-NY

Sarah Leung

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

**Project Coordinator** 

(ALS Digital Signature)

ALS is one of the world's largest and most diversified analytical testing ser page 27 duff 37 to learn more visit us at: www.alsglobal.com 5/26/2023 11:07 AM

**Project** 70256477 Workorder

3303824



# **Sample Summary**

Date Received Lab ID Sample ID <u>Matrix</u> **Date Collected** N-10149 05/16/2023 09:02 05/18/2023 09:12 3303824001 NY Potable Water

Collector CBC

Collection Company Collected By Client

<u>Project</u> 70256477 <u>Workorder</u> 3303824



#### Reference

#### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra.
   Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not
  listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the
  incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

#### Standard Acronyms/Flags

- J Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND) above the MDL
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Practical Quantitation Limit for this Project
- ND Not Detected indicates that the analyte was Not Detected
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference
- LOD DoD Limit of Detection
- LOQ DoD Limit of Quantitation
- DL DoD Detection Limit
  - Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
- (S) Surrogate Compound
- NC Not Calculated
- \* Result outside of QC limits
- # Please reference the result in the Results Section for analyte-level flags.

<u>Project</u> 70256477 <u>Workorder</u> 3303824



		Project Notations
		Sample Notations
Lab ID	Sample ID	
		Result Notations
Notation Ref.		

Project 702 Workorder 330

70256477 3303824



# **Detected Results Summary**

Client Sample ID	N-10149	Collected	05/16/2023 09:02
Lab Sample ID	3303824001	Lab Receipt	05/18/2023 09:12

Compound	Result Units	RDL	<u>MDL</u>	Method	<u>Flag</u>
WET CHEMISTRY					
Perchlorate	2.2J ug/L	4.0	0.20	EPA 314.0	#

<u>Project</u> 70256477 <u>Workorder</u> 3303824



## **Results**

 Client Sample ID
 N-10149
 Collected
 05/16/2023 09:02

 Lab Sample ID
 3303824001
 Lab Receipt
 05/18/2023 09:12

## **WET CHEMISTRY**

<u>Compound</u>	Result	<u>Flag</u>	<u>Units</u>	RDL	<u>MDL</u>	Method	<u>Dilution</u>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Perchlorate	2.2J	J	ug/L	4.0	0.20	EPA 314.0	1	05/23/2023 17:57	DMG	Α

<u>Project</u> 70256477 <u>Workorder</u> 3303824



# **Sample - Method Cross Reference Table**

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3303824001	N-10149	EPA 314.0	N/A	

70256477 3303824



# **QUALITY CONTROL SAMPLES**

## **WET CHEMISTRY**

QC Batch						,	Associated Sam	ples			
QC Batch 100 Date N/A Tech.	4885	Prep Method Analysis Method	N/A <u>od</u> EPA 3	314.0		3303	324001				
Matrix Spike		3672771	(MS)		33035940	001 (non-F	Project Sample)			For QC Batch	1004885
							nd is only used f e and cannot be			of calculating	
Matrix Spike Duplicate		3672772	(MSD)		33035940	)01 (non-F	Project Sample)			For QC Batch	1004885
RESULTS			Danult	Orig.	<u>Spk</u>	Rec.					
Compound	CAS No		Result (ug/L)	<u>Result</u> (ug/L)	Added (ug/L)	(%)	Limits (%)	RPD	) Limit	<u>(%)</u>	Qualifiers
Perchlorate	14797-73-0	MS	26.10	1.90	25	96.6	80 - 120				
Perchlorate	14797-73-0	MSD	26.10	1.90	25	96.9	80 - 120	RPD	0.26	(Max-15)	
Matrix Spike		3672775	(MS)		33041300	)01 (non-F	Project Sample)			For QC Batch	1004885
							nd is only used f e and cannot be			of calculating	
Matrix Spike Duplicate		3672776	(MSD)		33041300	001 (non-F	Project Sample)			For QC Batch	1004885
RESULTS			Result	<u>Orig.</u>	Spk Added	Rec.					
Compound	CAS No		(ug/L)	Result (ug/L)	Added (ug/L)	<u>(%)</u>	Limits (%)	RPD	) Limit	<u>(%)</u>	Qualifiers
Perchlorate	14797-73-0	MS	27.20	0	25	109	80 - 120				
Perchlorate	14797-73-0	MSD	26.90	0	25	108	80 - 120	RPD	<u>1.07</u>	(Max-15)	
Lab Control Standard		3672767	(LCS)		Crea	ted on <u>05</u>	/22/2023 10:46			For QC Batch	1004885
RESULTS				<u>Orig.</u>	<u>Spk</u>	_					
Compound	CAS No		Result	Result	<u>Added</u>	<u>Rec.</u> (%)	Limita (94)	DDF	) Limit	(0/.)	Qualifiers
Compound Perchlorate	14797-73-0	LCS	(ug/L) 26.60	(ug/L)	(ug/L) 25	106	<u>Limits (%)</u> 85 - 115	INFL	/ LIIIIII	(70)	Qualifiers
Method Blank		3672773	(MB)		Crea	ted on <u>05</u>	/22/2023 10:46			For QC Batch	1004885
RESULTS											
Compound		CAS No			Result Un	<u>its</u>	<u>RDL</u>				Qualifiers
Perchlorate		14797-73-0	Bl	_K	ND ug/	L	4.0				ND

Project Workorder 70256477 3303824



# **QUALITY CONTROL SAMPLES**

# WET CHEMISTRY (cont.)

Lab Control Standard	3672774 (LCS)	Created on 05/22/2023 10:46	For QC Batch <u>1004885</u>
RESULTS			

<u>Compound</u>	CAS No		Result (ug/L)	<u>Orig.</u> <u>Result</u> (ug/L)	<u>Spk</u> <u>Added</u> (ug/L)	<u>Rec.</u> (%)	Limits (%)	RPD Limit (%)	Qualifiers
Perchlorate	14797-73-0	LCS	27.80		25	111	85 - 115		

Method Blank 367	'3455 (MB)	Created on <u>05/23/2023 12:59</u>	For QC Batch <u>1004885</u>
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### RESULTS

Compound	CAS No		Result Units	<u>RDL</u>	<u>Qualifiers</u>
Perchlorate	14797-73-0	BLK	ND ug/L	4.0	ND

**Project** 70256477 Workorder

3303824



## **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	Ву	Analysis Method	Anly Batch
3303824001	N-10149	N/A	N/A	N/A		EPA 314.0	1004885

Page 1 of 1



3303824

Logged By: KSB PM: SSL

Pace Analytical

LAB USE ONLY Results Requested By: 5/26/2023 Please report in ug/L. WO Temp (°C) Requested Analysis Correct Containers Provided Sample Custody Seal Intact Receipt Info Completed By: Cooler Custody Seal Intact Adequate Sample Volumes Cooler & Samples Intact Sample Label/COC Agree VOA Headspace Present CR6 Samples Filtered WV Containers 0-6°C OP Samples Filtered Received on Ice Voa Trip Blank Temp By: NJs 4 Days? 3140 Perchlorate by IC Date/Time Preserved Containers 70256477 JSA POC/IOC/PERC/PFAS 5/16 paviasaidur P.O. Drinking Matrix Received By 301 Fulling Mill Road Middletown, PA 17057 70256477001 ALS -Middletown Lab ID Subcontract To Date/Time 5/16/2023 09:02 Workorder Name: Date/Time Collect Email: jennifer.aracri@pacelabs.com ż Workorder: 70256477 State of Sample Origin: Released/By 575 Broad Hollow Road Pace Analytical Melville Phone (631)694-3040 Melville, NY 11747 Report / Invoice To Sample ID Jennifer Aracri N-10149 **Transfers** Item

No G/C Sampler-Client 1-125mL/UNB/P

Z ō

Samples Intact

Z ō >

Received on Ice

Custody Seal Y or N

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Cooler Temperature on Receipt

5/18/12 09.

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Chain of Custody

PASI New York 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

Type: Drinking Water
Origin: Raw Well
Routine

**Sample Information:** 



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

Jericho Water District 125 Convent Rd. Syosset, NY 11791 Lab No. : 70258616001 Client Sample ID.: N-12795

Attn To: Peter Logan Federal ID: 2902831

 Collected :
 06/06/2023 01:05 PM
 Point
 N-12795

 Received :
 06/06/2023 01:48 PM
 Location Well 21

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.

**RUN TO WASTE** 

Analytical Method: ASTM D7237	<b>'-10</b>						
Parameter(s)	Results	<b>Qualifier</b>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container
Cyanide, Free	<10.0		1	ug/L	200	06/12/2023 5:34 PM	001 BP3C1/1
Analytical Method:EPA 180.1							
Parameter(s)	<u>Results</u>	<b>Qualifier</b>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container
Turbidity	<1.0		1	NTU	5	06/07/2023 6:53 PM	001 BP1U1/1
Analytical Method:EPA 200.7							
Parameter(s)	<u>Results</u>	Qualifier	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container
Ca Hardness as CaCO3 (SM 2340B	9.1		1	mg/L		06/12/2023 5:03 PM	001 BP4N1/1
Calcium	3.6		1	mg/L		06/12/2023 5:03 PM	001 BP4N1/1
ron	0.030		1	mg/L	0.3	06/12/2023 5:03 PM	001 BP4N1/1
//agnesium	1.2		1	mg/L		06/12/2023 5:03 PM	001 BP4N1/1
Manganese	<0.010		1	mg/L	0.3	06/12/2023 5:03 PM	001 BP4N1/1
Sodium	5.6		1	mg/L		06/12/2023 5:03 PM	001 BP4N1/1
Tot Hardness asCaCO3 (SM 2340B	14.3	N3	1	mg/L		06/12/2023 5:03 PM	001 BP4N1/1
Zinc	<0.020		1	mg/L	5	06/12/2023 5:03 PM	001 BP4N1/1
Analytical Method:EPA 200.8							
Parameter(s)	<u>Results</u>	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container
Antimony	<0.40		1	ug/L	6	06/09/2023 6:18 PM	001 BP4N1/1
Arsenic	<1.0		1	ug/L	10	06/09/2023 6:18 PM	001 BP4N1/1
Barium	0.0033		1	mg/L	2	06/09/2023 6:18 PM	001 BP4N1/1
Beryllium	< 0.30		1	ug/L	4	06/09/2023 6:18 PM	001 BP4N1/1
Cadmium	<1.0		1	ug/L	5	06/09/2023 6:18 PM	001 BP4N1/1
Chromium	< 0.0070		1	mg/L	0.1	06/09/2023 6:18 PM	001 BP4N1/1
Copper	0.0089		1	mg/L	1.3	06/09/2023 6:18 PM	001 BP4N1/1
_ead	<1.0		1	ug/L	15	06/09/2023 6:18 PM	001 BP4N1/1
Mercury	<0.20		1	ug/L	2	06/09/2023 6:18 PM	001 BP4N1/1
Nickel	0.0017		1	mg/L		06/09/2023 6:18 PM	001 BP4N1/1
Selenium	<2.0		1	ug/L	50	06/09/2023 6:18 PM	001 BP4N1/1
Silver	<0.0010		1	mg/L	0.1	06/09/2023 6:18 PM	001 BP4N1/1
Thallium	< 0.30		1	ug/L	2	06/09/2023 6:18 PM	001 BP4N1/1

#### 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.

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

# **Laboratory Results**

Pace\*
575 Broad Hollow Road, Melville, NY 11747

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

Client Sample ID.: N-12795

Lab No.: 70258616001

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

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

www.pacelabs.cc

<u>www.pacelabs.com</u>

Jericho Water District

125 Convent Rd. Syosset, NY 11791 Attn To: Peter Logan Federal ID: 2902831

> 06/06/2023 01:05 PM Point N-12795 06/06/2023 01:48 PM Location Well 21

Collected By CLIENT Sample Comments:

Collected:

Received:

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 300.0							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Chloride	7.1		1	mg/L	250	06/15/2023 12:02	001 BP1U1/1
Fluoride	<0.10		1	mg/L	2.2	06/15/2023 12:02	001 BP1U1/1
Sulfate	<5.0		1	mg/L	250	06/15/2023 12:02	001 BP1U1/1
Analytical Method:EPA 353.2							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Nitrate as N	3.4		5	mg/L	10	06/07/2023 12:59	001 BP1U1/1
Nitrate-Nitrite (as N)	3.4		5	mg/L		06/07/2023 12:59	001 BP1U1/1
Analytical Method:EPA 353.2							
Parameter(s)	Results	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	06/06/2023 11:27	001 BP1U1/1
Analytical Method: EPA 522		Prep Method:	EPA 522		Prep Date	<u>:</u> 06/09/2023 12:11	
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	2.3*		1	ug/L	1	06/12/2023 6:56 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	116%		1	%REC		06/12/2023 6:56 PM	001 AG2R1/2
Analytical Method: Field Method							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Field Temperature	13.3	N3	1	deg C		06/06/2023 1:05 PM	001 BP3C1/1
Field pH	6.60	N3	1	Std. Units		06/06/2023 1:05 PM	001 BP3C1/1
Analytical Method: SM22 2120B							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Apparent Color	<5.0		1	units		06/06/2023 8:26 PM	001 BP1U1/1
pH	5.3		1	Std. Units		06/06/2023 8:26 PM	001 BP1U1/1
Analytical Method: SM22 2150B							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Odor @ 60 Degrees C	No odor observed		1		3	06/06/2023 10:21	001 AG2U1/1

#### Qualifiers:

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 Δracri

Test results meet the requirements of NELAC unless otherwise noted.

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U - Indicates the compound was analyzed for, but not detected

# **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

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine



Jericho Water District 125 Convent Rd. Syosset, NY 11791 Lab No. : 70258616001 Client Sample ID.: N-12795

Attn To: Peter Logan Federal ID: 2902831

Collected: 06/06/2023 01:05 PM Point N-12795 Received: 06/06/2023 01:48 PM Location Well 21

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.

**RUN TO WASTE** 

Analytical Method:SM22 2320	)B						
Parameter(s)	Results	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Alkalinity, Total as CaCO3	1.7		1	mg/L		06/09/2023 1:36 PM	001 BP1U1/1
Analytical Method:SM22 2330	LSI						
Parameter(s)	Results	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	<u>Container</u> :
Corrosivity	-4.25		1			06/13/2023 1:14 PM	001 BP1U1/1
Analytical Method:SM22 2540	)C						
Parameter(s)	Results	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	<u>Container</u> :
Total Dissolved Solids	48.0	D6	1	mg/L		06/09/2023 11:44	001 BP1U1/1
Analytical Method:SM22 4500	NH3 H						
Parameter(s)	Results	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	<u>Container</u> :
Nitrogen, Ammonia	<0.10		1	mg/L		06/08/2023 1:24 PM	001 BP1U1/1
Analytical Method:SM22 5540	)C	Prep Method:	SM22 55	40C	Prep Date	<u>e:</u> 06/06/2023 11:58	
Parameter(s)	Results	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
LAS Molecular Weight, g/mol	320		1	_		06/07/2023 12:16	001 BP1U1/1
MBAS, Calculated as LAS	<0.080		1	mg/L		06/07/2023 12:16	001 BP1U1/1

## Qualifiers:

See qualifiers page for additional qualifier definitions.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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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



## **WorkOrder:**

70258616

# **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

Date Reported: 06/16/2023 page 4 of 8



## WorkOrder:

70258616

# **Additional Qualifiers**

D6 - The precision between the sample and sample duplicate exceeded laboratory control limits.

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

Date Reported: 06/16/2023 page 5 of 8



# Sample Request Form PUBLIC WATER SUPPLIER

Date: 6/6/33 134 Collected By: Cooler Temps: Accepted By

Syosset

125 Convent Rd

Address:

0848-146-915

Phone #:

Attn:

Proj. # or (Name):\_

Name or Code: Jericho Wufer

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7	

□ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCI

Purpose	RO - Routine	RE - Resample	S - Special		
Sample Types	W - Potable Water	3W - Groundwater	SW - Surface Water	WW - Waste Water	AQ - Aqueous

	Purpose	
	RO - Routine	<u>-</u> 0
water	RE - Resample	RW - R
	S - Special	TW - Tr
		T - Ta
		MW - M
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<ul><li>Potable Water</li><li>Groundwater</li><li>Surface Water</li><li>Waste Water</li></ul>	RO - Routine RE - Resample S - Special	D - Distribution RW - Raw Well TW - Treated Well	AST - Air Stripper GAC - Granular Activated Charcoal N - Nitrate Removal Plant
	RE - Resample S - Special	RW - Raw Well  RW - Treated Well  Fant	GAC - Granular Activated Charcoal N - Nitrate Removal Plant
o ပ	S - Special	rw - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		Tonk	
		- Idally	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		- Influent	
5		E - Effluent	

Lab No.									
Analysis	1,4 Dioxane	エッC							
Field Readings Cl <sub>2</sub> pH/Temp		6.60/13.30						put a Rush of	
Purpose	S	Ro						B	
Treatment Type									
Origin	RW	RW						(ease	
Location	Well 21 N-12795							A please	₹
Sample Type	PW	ρw	SX						
Date/Time Collected:	6/6/23	6/6/23	2					Remarks:	

Sample Info:

Copies To: \_

Bill To: \_\_

Due Date: 06/16/23 MO#:70258616 SOC 201 Non-aqueous Liquid dΝ **Drinking Water** NS Matrix SPLC Water CLIENT: JWD Solid ween MCKI PM: JSA DW P P P MGFU Nesn TSGS Add SCLO 500mL unpres amber glass 250mL Sodium Hydroxide Use Point 8148 1L unpreserved plastic BP3N\* 250mL HNO3 plastic NIG SP1Z 100 3P3R Can also be a BP4N 8638 BP3T BP1U ВРЗС AG2D ВЬЗС BP2N NEGE 120mL Coliform Na Thio NEGE WGDU | 16oz Unpreserved Jar WG2U | 2oz Unpreserved Jar WGFU 4oz Unpreserved Jar WGKU 8oz Unpreserved Jar 1L HCL Clear Glass BP2S SEdB Terracore Kil Ziplock Bag Tedlar Bag BP1U General BP2U DEAB ZPLC TEDL BG1H Bb4N DESCRIP 125mL unpreserved plastic 500ml, unpreserved plastic 250mL unpreserved plastic ALDA 1L unpreserved plastic 250mL H2SO4 plastic 500mL H2SO4 plastic 125mL HNO3 plastic 250mL HNO3 plastic 500ml, HNO3 plastic NaOH 250mL bottle HL94 Profile #: COC Page AGIT Plastic M AG2R AG3T VC4E BP2N BP4N BP3S BP2S BP3C BP3N SEDV 250mL Na Thio amber glass Ammonium Ct 250ml\_ bottle 250mL H2SO4 amber glass Na Sulfite 500mL (blue Cap) VC34 250mL unpres amber glass 500mL unpres amber glass 1liter unpres amber glass 125mL EDA amber glass Na Thiosulfate 1L bottle NESA vesu AG3U Ve¢n S690 DC#\_Title\_ENV-FRM-MELV-0150 v1\_Sample Container Count Melville Effective Date: 4/10/2023 1990 AG4E AG10 AG34 40mL Ascorbic-HCI clear vial AG3U AGZU AG3T AG2R Ammonium CI/CuSO4 40mL AG1T 40mL Citrate-Na Thiosulfate AG3S A650 Work ID: 14 OTEX Glass d690 Ascorbic/Maleic Acid 40mL 40mL Na Thiosulfate vial 40mL Sulfuirc clear vial J690 40mL unpres clear vial 40mL amber vial - TSP 40mL HCI clear vial Na Thio 60mL Vial T650 S69/ H69/ AG9C N69/ DG9P 0698 VG9U VG9H VG9S DG9Y DG9A DG6T DG9T page 7 of 8

30.220

COC

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

Na Thiosulfate Amber Bottle

1L NaOH, Zn Acetate

1L HNO3 plastic

BP1Z BP1N BP1B

250mL Ammonium Acetate 250mL NH4SO4-NH4OH

250mL Trizma

BP3T

1L HCI amber glass

AG1H AG1A

1L Unpres Jar (Con Ed)

\*\*

Boz clear soil jar 4oz clear soil jar

WG90

WG40

**BP35** 

Sender Initials

> Please use "BPUN"

Additional Comments

Pace® Analytical Services, LLC

DC#\_Title: ENV-FRM-MELV-0024 v4\_SCUR Effective Date: 5/23/2023 WO#:70258616 Due Date: 06/16/23 Client Name: Project # PM: JSA Courier: | Fed Ex | UPS | USPS | Client | Commercial | Pace | Other CLIENT: JWD Custody Seal on Cooler/Box Present: ☐Yes ☐ No Seals intact: ☐Yes ☐ No Te. .... Violik Prosent: | Yes No Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other Type of Ice: Wet Blue None Cooler Temperature (°C): Cooler Temperature Corrected (°C): Cooler Temperature Correct 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: 3H 6/6/23 COMMENTS: Chain of Custody Present: □Yes\_ □No Chain of Custody Filled Out: □ Yes οNo Chain of Custody Relinquished: σNo Sampler Name & Signature on COC: dYes\_ □N/A □No 4 Samples Arrived within Hold Time: r Yes \_\_ □No Yes Short Hold Time Analysis (<72hr): oNo 6 Rush Turn Around Time Requested □Yes вNo Sufficient Volume: (Triple volume □ Yes □No 8 provided for MS/MSD) οNo 9. Correct Containers Used: -Yes -Pace Containers Used: οNo Containers Intact: **⊈**Yes пNо 10. □Yes □No N/A 11. Note: if sediment is visible in the dissolved container. Filtered volume received for Dissolved tests res ON Sample Labels match COC: 12. SL WI OIL OTHER Matrix: -Includes date/time/ID/Analysis SH 6/6/23 Date and Initials of person checking preservation: All containers needing preservation □ HNO<sub>3</sub> □ H<sub>2</sub>SO<sub>4</sub> □ NaOH □ HCI DN/A have been pH paper Lot # HC293085 Sample All containers needing preservation are found to be # in compliance with method recommendation2 (HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HCl, NaOH>9 Sulfide, eres aNo ⊓N/A NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, Lot # of added Initial when completed: Date/Time preservative added: DRO/8015 (water). preservative: Per Method, VOA pH is checked after analysis Samples checked for dechlorination: \*\*Yes □N/A KI starch test strips Lot # Residual chlorine strips Lot # 14-860 Positive for Res. Chlorine? Y N

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

SM 4500 CN samples checked for sularyes

Lead Acetate Strips Lot #

Trip Blank Present:

Person Contacted:

Comments/ Resolution:

Headspace in VOA Vials ( >6mm)

Trip Blank Custody Seals Present

Client Notification/ Resolution:

□N/A

□N/A

⊓N/A

□N/A

αNo

oNo

□Yes

□Yes

15

16. 17

Positive for Sulfide?

Field Data Required?

Date/Time:

Y N

Y /