July 1, 2021

Jericho Water District
PWS ID No. NY2902831
MCL Deferral for 1,4-dioxane
Quarterly Report – Second Quarter 2021

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 enclosed 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

<u>Wells 9 and 14</u>

The design phase of this project is nearing completion. Detailed plans and specifications are expected to be submitted to the NYSDOH and NCDH in the early third quarter of 2021. NYSDOH has endorsed the general scope outlined in the Basis of Design Report (BODR). The BODR is still under review by the NCDH. Although the project is currently behind the originally proposed aggressive schedule, it is still expected that the new treatment system will be in operation for the third quarter of 2022, before the deferral is set to expire.

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

<u>Wells 20 and 21</u>

The District is currently in the process of preparing to perform a pilot study for the Wells 20 and 21 project. As detections of 1,4-dioxane are routinely at a higher concentration in Well 20 than Well 21, it is proposed to pilot only water from Well 20 as a more conservative approach for the entire site. Piloting cannot commence until Well 20 is returned to service upon completion of the installation of granular activated carbon (GAC) treatment for Simazine removal. Construction on this project is currently finished and awaiting the approval to operate from the NCDH. Well 21 continues to operate to distribution.

Although the pilot test and BODR have been delayed, the detailed design of the facility has commenced and the construction of the AOP facility is still expected to be completed by the end of 2023 in accordance with the deferral schedule.

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

Piloting of Well 22 was completed in the second quarter of 2021. The Pilot Study Report is being developed and will be included as an appendix to the BODR once it is finalized. The BODR will be submitted to the NCDH and NYSDOH by the end of the third quarter of 2021.

In addition, the detailed design of the facility has commenced and the construction of the AOP facility is still expected to start in the third quarter of 2022 and be completed by the end of 2023 in accordance with the deferral schedule.

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. 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.

Wells 25 and 26 (Kirby Lane Facility)

This project is currently in the design phase. The BODR and Pilot Study Report were finalized and submitted for regulatory review in the first quarter of 2021. On June 24, 2021, JWD received comments from the NCDH on the BODR and Pilot Study Report, to which the District is currently in the process of responding.

The detailed design is currently underway and is expected to be complete and submitted for regulatory review by the end of the third quarter of 2021. The District is still expected to have the full treatment plant operational in the first quarter 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 first quarter of 2021 are contained in the below tables. Full laboratory reports for each sample are contained in **Attachment B**.

1,4-dioxane (ppb)

Well	Date			
	April 2021	May 2021		June 2021
Well 9 (N-4245)*	NS	NS		NS
Well 14 (N-6651)*	NS	NS		NS
Well 20 (N-10149)	NS	NS		0.50
Well 21 (N-12795)	0.50	0.43		0.41
Well 22 (N-7781)	0.54	0.52	0.59	0.57
Well 25 (N-8355)	10.5	6.2		9.3
Well 26 (N-13119)	1.6	2.1		3.2

**Well out of service*
NS = Not sampled (because wells are not in service)

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 the District at 516-921-8280 or visit the website, www.jerichowater.org

Very truly yours,

Board of Commissioners
Jericho Water District

Enclosures

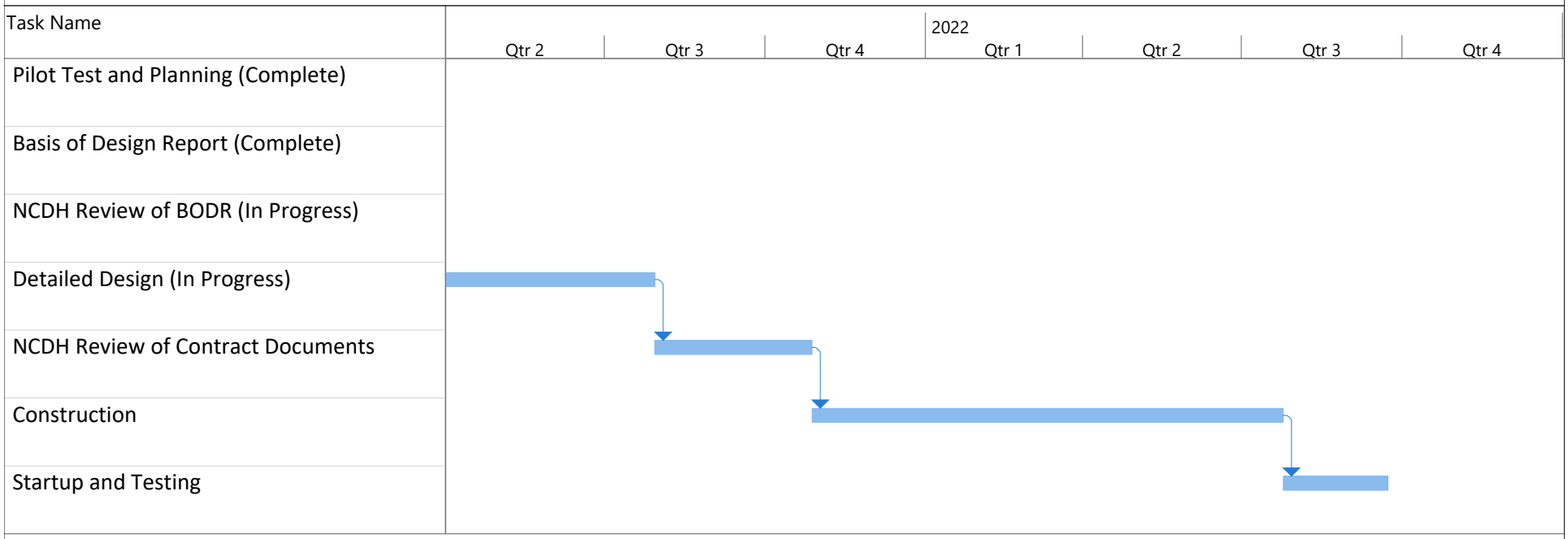
cc: K. Wheeler (NYSDOH)
B. Rogers (NYSDOH)
W. Provoncha (NCDH)
P. Young (NCDH)
R. Putnam (NCDH)
P. Logan (JWD)
B. Merklin (D&B)
P. Connell (D&B)

ATTACHMENT A

Project Schedules Associated with MCL Deferral

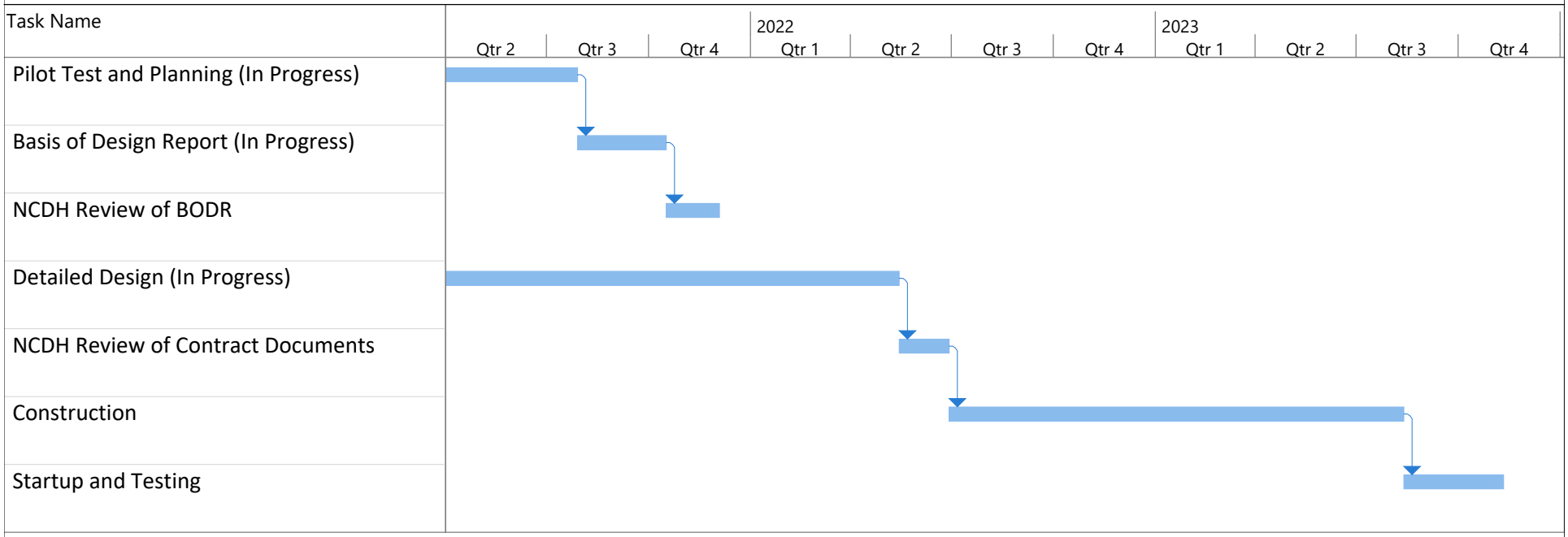
Jericho Water District
MCL Deferral Request
Quarterly Report

Wells 9 and 14
AOP Project Schedule



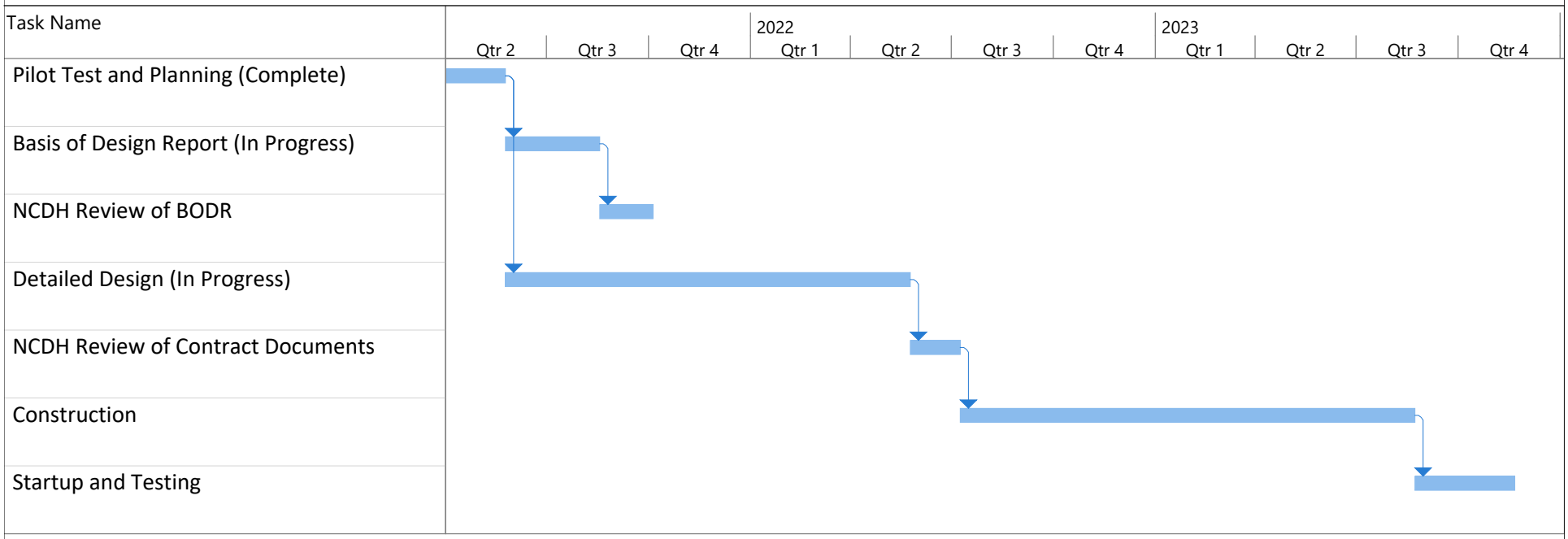
Jericho Water District
MCL Deferral Request
Quarterly Report

Wells 20 and 21
AOP Project Schedule



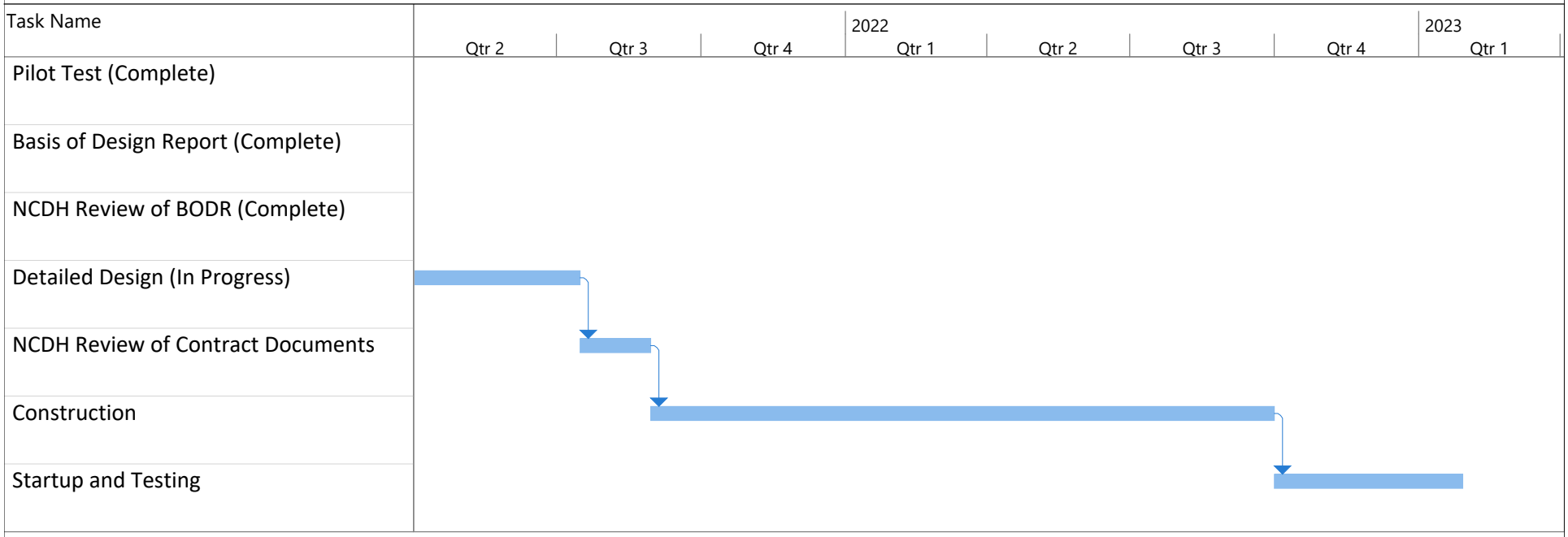
Jericho Water District
MCL Deferral Request
Quarterly Report

Well 22
AOP Project Schedule



Jericho Water District
MCL Deferral Request
Quarterly Report

Wells 25 and 26
AOP Project Schedule



ATTACHMENT B

Water Quality Data

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

April 09, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Allen Fok, D & B Engineers
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Delaware Certification # NY10478
Virginia Certification # 460302
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70167674001	**N-07772**	Drinking Water	04/01/21 08:35	04/01/21 11:36
70167674002	**N-07773**	Drinking Water	04/01/21 08:52	04/01/21 11:36
70167674003	**GAC-07773**	Drinking Water	04/01/21 08:55	04/01/21 11:36
70167674004	**N-06092**	Drinking Water	04/01/21 09:25	04/01/21 11:36
70167674005	**N-06093**	Drinking Water	04/01/21 09:40	04/01/21 11:36
70167674006	**N-00198**	Drinking Water	04/01/21 07:55	04/01/21 11:36
70167674007	**N-08043**	Drinking Water	04/01/21 08:30	04/01/21 11:36
70167674008	**N-12795**	Drinking Water	04/01/21 09:10	04/01/21 11:36

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70167674001	**N-07772**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70167674002	**N-07773**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70167674003	**GAC-07773**	EPA 537.1	SWR	9	PASI-O
70167674004	**N-06092**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70167674005	**N-06093**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O
70167674006	**N-00198**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O
70167674007	**N-08043**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70167674008	**N-12795**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O

PACE-MV = Pace Analytical Services - Melville
PASI-O = Pace Analytical Services - Ormond Beach

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

Sample: N-07772 **Lab ID: 70167674001** Collected: 04/01/21 08:35 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.18**	ug/L	0.020		1	04/06/21 12:55	04/07/21 06:14	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	80	%	70-130		1	04/06/21 12:55	04/07/21 06:14		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 00:23	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 00:23	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 00:23	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 00:23	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 00:23	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 00:23	335-67-1	
Surrogates									
13C2-PFDA (S)	97	%	70-130		1	04/05/21 09:51	04/08/21 00:23		
13C2-PFHxA (S)	99	%	70-130		1	04/05/21 09:51	04/08/21 00:23		
HFPO-DAS (S)	92	%	70-130		1	04/05/21 09:51	04/08/21 00:23		

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

Sample: N-07773 **Lab ID: 70167674002** Collected: 04/01/21 08:52 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.15**	ug/L	0.020		1	04/06/21 12:55	04/07/21 06:30	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	86	%	70-130		1	04/06/21 12:55	04/07/21 06:30		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 00:39	375-73-5	
Perfluoroheptanoic acid	**19.3**	ng/L	1.9		1	04/05/21 09:51	04/08/21 00:39	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 00:39	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 00:39	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 00:39	1763-23-1	
Perfluorooctanoic acid	**5.6**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 00:39	335-67-1	
Surrogates									
13C2-PFDA (S)	97	%	70-130		1	04/05/21 09:51	04/08/21 00:39		
13C2-PFHxA (S)	98	%	70-130		1	04/05/21 09:51	04/08/21 00:39		
HFPO-DAS (S)	91	%	70-130		1	04/05/21 09:51	04/08/21 00:39		

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

Sample: GAC-07773 **Lab ID: 70167674003** Collected: 04/01/21 08:55 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 00:55	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 00:55	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 00:55	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 00:55	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	04/05/21 09:51	04/08/21 00:55	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	04/05/21 09:51	04/08/21 00:55	335-67-1	
Surrogates									
13C2-PFDA (S)	96	%	70-130		1	04/05/21 09:51	04/08/21 00:55		
13C2-PFHxA (S)	102	%	70-130		1	04/05/21 09:51	04/08/21 00:55		
HFPO-DAS (S)	99	%	70-130		1	04/05/21 09:51	04/08/21 00:55		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

Sample: N-06092 **Lab ID: 70167674004** Collected: 04/01/21 09:25 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.075**	ug/L	0.020		1	04/06/21 12:55	04/07/21 06:47	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	83	%	70-130		1	04/06/21 12:55	04/07/21 06:47		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 01:26	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 01:26	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 01:26	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 01:26	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 01:26	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 01:26	335-67-1	
Surrogates									
13C2-PFDA (S)	98	%	70-130		1	04/05/21 09:51	04/08/21 01:26		
13C2-PFHxA (S)	105	%	70-130		1	04/05/21 09:51	04/08/21 01:26		
HFPO-DAS (S)	94	%	70-130		1	04/05/21 09:51	04/08/21 01:26		

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

Sample: N-06093 **Lab ID: 70167674005** Collected: 04/01/21 09:40 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.17**	ug/L	0.020		1	04/06/21 12:55	04/07/21 07:04	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	82	%	70-130		1	04/06/21 12:55	04/07/21 07:04		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 02:59	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 02:59	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 02:59	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 02:59	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	04/05/21 09:51	04/08/21 02:59	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	04/05/21 09:51	04/08/21 02:59	335-67-1	
Surrogates									
13C2-PFDA (S)	100	%	70-130		1	04/05/21 09:51	04/08/21 02:59		
13C2-PFHxA (S)	104	%	70-130		1	04/05/21 09:51	04/08/21 02:59		
NEtFOSAA-d5 (S)	94	%	70-130		1	04/05/21 09:51	04/08/21 02:59		
HFPO-DAS (S)	99	%	70-130		1	04/05/21 09:51	04/08/21 02:59		

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

Sample: N-00198 **Lab ID: 70167674006** Collected: 04/01/21 07:55 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.47**	ug/L	0.020		1	04/06/21 12:55	04/07/21 07:20	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	87	%	70-130		1	04/06/21 12:55	04/07/21 07:20		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.0**	ng/L	2.0		1	04/05/21 09:51	04/07/21 23:37	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	04/05/21 09:51	04/07/21 23:37	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	04/05/21 09:51	04/07/21 23:37	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	04/05/21 09:51	04/07/21 23:37	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	04/05/21 09:51	04/07/21 23:37	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	04/05/21 09:51	04/07/21 23:37	335-67-1	
Surrogates									
13C2-PFDA (S)	104	%	70-130		1	04/05/21 09:51	04/07/21 23:37		
13C2-PFHxA (S)	106	%	70-130		1	04/05/21 09:51	04/07/21 23:37		
NEtFOSAA-d5 (S)	103	%	70-130		1	04/05/21 09:51	04/07/21 23:37		
HFPO-DAS (S)	94	%	70-130		1	04/05/21 09:51	04/07/21 23:37		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

Sample: N-08043 **Lab ID: 70167674007** Collected: 04/01/21 08:30 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.12**	ug/L	0.020		1	04/06/21 12:55	04/07/21 07:53	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	85	%	70-130		1	04/06/21 12:55	04/07/21 07:53		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.2**	ng/L	2.2		1	04/05/21 09:51	04/08/21 00:08	375-73-5	
Perfluoroheptanoic acid	**<2.2**	ng/L	2.2		1	04/05/21 09:51	04/08/21 00:08	375-85-9	
Perfluorohexanesulfonic acid	**<2.2**	ng/L	2.2		1	04/05/21 09:51	04/08/21 00:08	355-46-4	
Perfluorononanoic acid	**<2.2**	ng/L	2.2		1	04/05/21 09:51	04/08/21 00:08	375-95-1	
Perfluorooctanesulfonic acid	**<2.2**	ng/L	2.2	10	1	04/05/21 09:51	04/08/21 00:08	1763-23-1	
Perfluorooctanoic acid	**<2.2**	ng/L	2.2	10	1	04/05/21 09:51	04/08/21 00:08	335-67-1	
Surrogates									
13C2-PFDA (S)	95	%	70-130		1	04/05/21 09:51	04/08/21 00:08		
13C2-PFHxA (S)	96	%	70-130		1	04/05/21 09:51	04/08/21 00:08		
HFPO-DAS (S)	86	%	70-130		1	04/05/21 09:51	04/08/21 00:08		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

Sample: N-12795 **Lab ID: 70167674008** Collected: 04/01/21 09:10 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.50**	ug/L	0.020		1	04/06/21 12:55	04/07/21 08:09	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	86	%	70-130		1	04/06/21 12:55	04/07/21 08:09		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.1**	ng/L	2.1		1	04/05/21 09:51	04/08/21 01:10	375-73-5	
Perfluoroheptanoic acid	**<2.1**	ng/L	2.1		1	04/05/21 09:51	04/08/21 01:10	375-85-9	
Perfluorohexanesulfonic acid	**<2.1**	ng/L	2.1		1	04/05/21 09:51	04/08/21 01:10	355-46-4	
Perfluorononanoic acid	**<2.1**	ng/L	2.1		1	04/05/21 09:51	04/08/21 01:10	375-95-1	
Perfluorooctanesulfonic acid	**<2.1**	ng/L	2.1	10	1	04/05/21 09:51	04/08/21 01:10	1763-23-1	
Perfluorooctanoic acid	**<2.1**	ng/L	2.1	10	1	04/05/21 09:51	04/08/21 01:10	335-67-1	
Surrogates									
13C2-PFDA (S)	93	%	70-130		1	04/05/21 09:51	04/08/21 01:10		
13C2-PFHxA (S)	92	%	70-130		1	04/05/21 09:51	04/08/21 01:10		
HFPO-DAS (S)	77	%	70-130		1	04/05/21 09:51	04/08/21 01:10		

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

QC Batch: 202897
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70167674001, 70167674002, 70167674004, 70167674005, 70167674006, 70167674007, 70167674008

METHOD BLANK: 999675
Matrix: Drinking Water
Associated Lab Samples: 70167674001, 70167674002, 70167674004, 70167674005, 70167674006, 70167674007, 70167674008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	04/07/21 02:55	
1,4-Dioxane-d8 (S)	%	85	70-130	04/07/21 02:55	

LABORATORY CONTROL SAMPLE: 999676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	0.025	125	70-130	
1,4-Dioxane-d8 (S)	%			92	70-130	

MATRIX SPIKE SAMPLE: 999677

Parameter	Units	70167673004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.13	0.02	0.17	191	70-130	M1
1,4-Dioxane-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 999678

Parameter	Units	70167673005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.10	0.11	8	20	
1,4-Dioxane-d8 (S)	%	93	91		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

QC Batch: 718401
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70167674001, 70167674002, 70167674003, 70167674004, 70167674006, 70167674007, 70167674008

METHOD BLANK: 3914685
Matrix: Water
Associated Lab Samples: 70167674001, 70167674002, 70167674003, 70167674004, 70167674006, 70167674007, 70167674008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	04/07/21 18:56	
Perfluoroheptanoic acid	ng/L	ND	2.0	04/07/21 18:56	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	04/07/21 18:56	
Perfluorononanoic acid	ng/L	ND	2.0	04/07/21 18:56	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	04/07/21 18:56	
Perfluorooctanoic acid	ng/L	ND	2.0	04/07/21 18:56	
13C2-PFDA (S)	%	101	70-130	04/07/21 18:56	
13C2-PFHxA (S)	%	100	70-130	04/07/21 18:56	
HFPO-DAS (S)	%	86	70-130	04/07/21 18:56	
NEtFOSAA-d5 (S)	%	98	70-130	04/07/21 18:56	

LABORATORY CONTROL SAMPLE: 3914686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	142	139	98	70-130	
Perfluoroheptanoic acid	ng/L	160	152	95	70-130	
Perfluorohexanesulfonic acid	ng/L	146	148	102	70-130	
Perfluorononanoic acid	ng/L	160	165	103	70-130	
Perfluorooctanesulfonic acid	ng/L	148	150	101	70-130	
Perfluorooctanoic acid	ng/L	160	162	102	70-130	
13C2-PFDA (S)	%			101	70-130	
13C2-PFHxA (S)	%			101	70-130	
HFPO-DAS (S)	%			91	70-130	
NEtFOSAA-d5 (S)	%			97	70-130	

LABORATORY CONTROL SAMPLE: 3914687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.6J	91	50-150	
Perfluoroheptanoic acid	ng/L	2	1.7J	85	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.9J	102	50-150	
Perfluorononanoic acid	ng/L	2	ND	91	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	ND	106	50-150	
Perfluorooctanoic acid	ng/L	2	1.8J	91	50-150	
13C2-PFDA (S)	%			101	70-130	
13C2-PFHxA (S)	%			95	70-130	
HFPO-DAS (S)	%			85	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

LABORATORY CONTROL SAMPLE: 3914687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			94	70-130	

MATRIX SPIKE SAMPLE: 3914688

Parameter	Units	70167666001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	6.7	6.0	89	70-130	
Perfluoroheptanoic acid	ng/L	<1.9	7.5	7.1	93	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.9	6.9	6.5	94	70-130	
Perfluorononanoic acid	ng/L	<1.9	7.5	7.2	95	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.9	7	6.6	94	70-130	
Perfluorooctanoic acid	ng/L	<1.9	7.5	7.2	94	70-130	
13C2-PFDA (S)	%				95	70-130	
13C2-PFHxA (S)	%				98	70-130	
HFPO-DAS (S)	%				94	70-130	
NEtFOSAA-d5 (S)	%				88	70-130	

SAMPLE DUPLICATE: 3914689

Parameter	Units	70167674006 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.0	<2.0		30	
Perfluoroheptanoic acid	ng/L	<2.0	<2.0		30	
Perfluorohexanesulfonic acid	ng/L	<2.0	<2.0		30	
Perfluorononanoic acid	ng/L	<2.0	<2.0		30	
Perfluorooctanesulfonic acid	ng/L	<2.0	<2.0		30	
Perfluorooctanoic acid	ng/L	<2.0	<2.0		30	
13C2-PFDA (S)	%	104	95			
13C2-PFHxA (S)	%	106	93			
HFPO-DAS (S)	%	94	77			
NEtFOSAA-d5 (S)	%	103	93			

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

QC Batch: 718402
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70167674005

METHOD BLANK: 3914690
Matrix: Water
Associated Lab Samples: 70167674005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	04/08/21 02:13	
Perfluoroheptanoic acid	ng/L	ND	2.0	04/08/21 02:13	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	04/08/21 02:13	
Perfluorononanoic acid	ng/L	ND	2.0	04/08/21 02:13	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	04/08/21 02:13	
Perfluorooctanoic acid	ng/L	ND	2.0	04/08/21 02:13	
13C2-PFDA (S)	%	101	70-130	04/08/21 02:13	
13C2-PFHxA (S)	%	102	70-130	04/08/21 02:13	
HFPO-DAS (S)	%	92	70-130	04/08/21 02:13	
NEtFOSAA-d5 (S)	%	96	70-130	04/08/21 02:13	

LABORATORY CONTROL SAMPLE: 3914691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	6.5	92	70-130	
Perfluoroheptanoic acid	ng/L	8	7.1	89	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	6.7	91	70-130	
Perfluorononanoic acid	ng/L	8	7.2	90	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	6.7	91	70-130	
Perfluorooctanoic acid	ng/L	8	7.0	88	70-130	
13C2-PFDA (S)	%			103	70-130	
13C2-PFHxA (S)	%			95	70-130	
HFPO-DAS (S)	%			96	70-130	
NEtFOSAA-d5 (S)	%			94	70-130	

LABORATORY CONTROL SAMPLE: 3914692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.4J	80	50-150	
Perfluoroheptanoic acid	ng/L	2	1.7J	85	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.7J	92	50-150	
Perfluorononanoic acid	ng/L	2	ND	86	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.6J	88	50-150	
Perfluorooctanoic acid	ng/L	2	1.7J	84	50-150	
13C2-PFDA (S)	%			98	70-130	
13C2-PFHxA (S)	%			100	70-130	
HFPO-DAS (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

LABORATORY CONTROL SAMPLE: 3914692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			93	70-130	

MATRIX SPIKE SAMPLE: 3914693

Parameter	Units	70167674005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	129	117	91	70-130	
Perfluoroheptanoic acid	ng/L	<1.8	146	133	91	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.8	133	127	95	70-130	
Perfluorononanoic acid	ng/L	<1.8	146	137	94	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.8	135	123	91	70-130	
Perfluorooctanoic acid	ng/L	<1.8	146	138	94	70-130	
13C2-PFDA (S)	%				100	70-130	
13C2-PFHxA (S)	%				103	70-130	
HFPO-DAS (S)	%				102	70-130	
NEtFOSAA-d5 (S)	%				93	70-130	

SAMPLE DUPLICATE: 3914694

Parameter	Units	70167673009 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	<1.8		30	
Perfluoroheptanoic acid	ng/L	<1.8	<1.8		30	
Perfluorohexanesulfonic acid	ng/L	<1.8	<1.8		30	
Perfluorononanoic acid	ng/L	<1.8	<1.8		30	
Perfluorooctanesulfonic acid	ng/L	<1.8	<1.8		30	
Perfluorooctanoic acid	ng/L	<1.8	<1.8		30	
13C2-PFDA (S)	%	110	111			
13C2-PFHxA (S)	%	116	111			
HFPO-DAS (S)	%	107	107			
NEtFOSAA-d5 (S)	%	103	108			

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QUALIFIERS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 70167674

[1] Samples were received on the same day of collection on ice and are above 6 degrees Celsius. Samples were placed on ice by the lab and the cooling process has begun.

SAMPLE QUALIFIERS

Sample: 70167674001

[1] Samples were received on the same day of collection on ice and are above 6 degrees Celsius. Samples were placed on ice by the lab and the cooling process has begun.

[2] RUN TO WASTE

Sample: 70167674002

[1] RUN TO WASTE

Sample: 70167674003

[1] RUN TO WASTE

Sample: 70167674005

[1] RUN TO WASTE

Sample: 70167674007

[1] RUN TO WASTE

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167674

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70167674001	**N-07772**	EPA 522	202897	EPA 522	202971
70167674002	**N-07773**	EPA 522	202897	EPA 522	202971
70167674004	**N-06092**	EPA 522	202897	EPA 522	202971
70167674005	**N-06093**	EPA 522	202897	EPA 522	202971
70167674006	**N-00198**	EPA 522	202897	EPA 522	202971
70167674007	**N-08043**	EPA 522	202897	EPA 522	202971
70167674008	**N-12795**	EPA 522	202897	EPA 522	202971
70167674001	**N-07772**	EPA 537.1	718401	EPA 537.1	718745
70167674002	**N-07773**	EPA 537.1	718401	EPA 537.1	718745
70167674003	**GAC-07773**	EPA 537.1	718401	EPA 537.1	718745
70167674004	**N-06092**	EPA 537.1	718401	EPA 537.1	718745
70167674005	**N-06093**	EPA 537.1	718402	EPA 537.1	718748
70167674006	**N-00198**	EPA 537.1	718401	EPA 537.1	718745
70167674007	**N-08043**	EPA 537.1	718401	EPA 537.1	718745
70167674008	**N-12795**	EPA 537.1	718401	EPA 537.1	718745

WO#: 70167674

70167674

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 4/1/21

Collected By: CS

Accepted By: Mary S

Cooler Temp: 8.4 °C 4/1/21 1136

(B)

☐ WELL OFF LINE _____

☐ WELL RUN TO SYSTEM _____

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water

Address: 125 Convent Rd
Syosset NY 11791

Phone #: (516)921-8280

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
4/1/21 8:35Am	PW	Ran to waste Well #18 H-07772	RW		RO			1,4 Dioxane	
4/1/21 8:52Am	PW	Ran to waste Well 19 H-07773	RW		RO			1,4 Dioxane	
~~4/1/21~~	~~PW~~	~~Ran to waste Well 16 GAC H-06073~~	~~TW~~	~~GAC~~	~~RO~~			~~1,4 Dioxane~~	
4/1/21 9:25Am	PW	Ran to system Well 12 H-06092	RW		RO			1,4 Dioxane	
4/1/21 9:40Am	PW	Ran to waste Well 13 H-06093	RW		RO			1,4 Dioxane	
4/1/21 7:55Am	PW	Ran to system Well 3 H-00195	RW		RO			1,4 Dioxane	
4/1/21 8:30Am	PW	Ran to waste Well 23 H-08043	RW		RO			1,4 Dioxane	
4/1/21 9:10Am	PW	Ran to system Well 21 H-12795	RW		RO			1,4 Dioxane	

Remarks:

WO#: 70167674
PM: JSA
CLIENT: JWD
Due Date: 04/13/21

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 4/1/21
Collected By: CS (B)
Accepted By: [signature]
Cooler Temp: 8.1 °C 4/1/21 1136

☐ WELL OFF LINE
☐ WELL RUN TO SYSTEM
☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:
Name or Code: Jericho Water
Address: 125 Convent Rd
Syosset, NY 11791
Phone #: (516) 921-8280
Attn:
Proj. # or (Name):
Bill To:
Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
4/1/21 8:35Am	PW	Ran to waste Well 18 H-07772	RW		RO			PFOS/PFOA	
4/1/21 8:52Am	PW	Ran to waste Well 19 H-07773	RW		RO			PFOS/PFOA	
4/1/21 8:55Am	PW	Ran to waste Well 19 GAC GAC-07773	TW	GAC	RO			PFOS/PFOA	
4/1/21 9:25Am	PW	Ran to system Well 12 H-06092	RW		RO			PFOS/PFOA	
4/1/21 9:40Am	PW	Ran to waste Well 13 H-06093	RW		RO			PFOS/PFOA	
4/1/21 7:55Am	PW	Ran to system Well 3 H 00198	RW		RO			PFOS/PFOA	
4/1/21 8:30Am	PW	Ran to waste Well 23 H-06043	RW		RO			PFOS/PFOA	
4/1/21 9:10Am	PW	Ran to system Well 21 H-12795	RW		RO			PFOS/PFOA	

Remarks:

Sample Condition Upon Receipt

Pace Analytical®

WO#: 70167674
PM: JSA **Due Date: 04/13/21**
CLIENT: JWD

Client Name: Jericho Water

Proje

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

Tracking #:

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

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 8.1 Cooler Temperature Corrected(°C): 8.1

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet (Blue) None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: CH 4/2/21

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL WT OIL				
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

April 09, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Allen Fok, D & B Engineers
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Delaware Certification # NY10478
Virginia Certification # 460302
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70167673001	**N-08713**	Drinking Water	04/01/21 08:25	04/01/21 11:36
70167673002	**N-14003**	Drinking Water	04/01/21 08:42	04/01/21 11:36
70167673003	**N-05201**	Drinking Water	04/01/21 08:54	04/01/21 11:36
70167673004	**N-11295**	Drinking Water	04/01/21 09:42	04/01/21 11:36
70167673005	**N-11107**	Drinking Water	04/01/21 09:25	04/01/21 11:36
70167673006	**N-07781**	Drinking Water	04/01/21 09:55	04/01/21 11:36
70167673007	**N-08355**	Drinking Water	04/01/21 10:15	04/01/21 11:36
70167673008	**N-13119**	Drinking Water	04/01/21 10:21	04/01/21 11:36
70167673009	**N-13268**	Drinking Water	04/01/21 10:38	04/01/21 11:36
70167673010	**N-03475**	Drinking Water	04/01/21 11:10	04/01/21 11:36

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70167673001	**N-08713**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70167673002	**N-14003**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O
70167673003	**N-05201**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O
70167673004	**N-11295**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O
70167673005	**N-11107**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O
70167673006	**N-07781**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O
70167673007	**N-08355**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O
70167673008	**N-13119**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70167673009	**N-13268**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O
70167673010	**N-03475**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O

PACE-MV = Pace Analytical Services - Melville
PASI-O = Pace Analytical Services - Ormond Beach

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Sample: N-08713 **Lab ID: 70167673001** Collected: 04/01/21 08:25 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.17**	ug/L	0.020		1	04/06/21 08:03	04/07/21 02:05	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	04/06/21 08:03	04/07/21 02:05		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 19:11	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 19:11	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 19:11	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 19:11	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 19:11	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 19:11	335-67-1	
Surrogates									
13C2-PFDA (S)	99	%	70-130		1	04/05/21 09:51	04/08/21 19:11		
13C2-PFHxA (S)	96	%	70-130		1	04/05/21 09:51	04/08/21 19:11		
NEtFOSAA-d5 (S)	96	%	70-130		1	04/05/21 09:51	04/08/21 19:11		
HFPO-DAS (S)	92	%	70-130		1	04/05/21 09:51	04/08/21 19:11		

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Sample: N-14003 **Lab ID: 70167673002** Collected: 04/01/21 08:42 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.098**	ug/L	0.020		1	04/06/21 08:03	04/07/21 02:22	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	89	%	70-130		1	04/06/21 08:03	04/07/21 02:22		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 04:02	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 04:02	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 04:02	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 04:02	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 04:02	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 04:02	335-67-1	
Surrogates									
13C2-PFDA (S)	103	%	70-130		1	04/05/21 09:51	04/08/21 04:02		
13C2-PFHxA (S)	103	%	70-130		1	04/05/21 09:51	04/08/21 04:02		
NEtFOSAA-d5 (S)	102	%	70-130		1	04/05/21 09:51	04/08/21 04:02		
HFPO-DAS (S)	101	%	70-130		1	04/05/21 09:51	04/08/21 04:02		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Sample: N-05201 **Lab ID: 70167673003** Collected: 04/01/21 08:54 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**<0.020**	ug/L	0.020		1	04/06/21 08:03	04/07/21 02:38	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	89	%	70-130		1	04/06/21 08:03	04/07/21 02:38		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 04:17	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 04:17	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 04:17	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 04:17	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 04:17	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 04:17	335-67-1	
Surrogates									
13C2-PFDA (S)	100	%	70-130		1	04/05/21 09:51	04/08/21 04:17		
13C2-PFHxA (S)	101	%	70-130		1	04/05/21 09:51	04/08/21 04:17		
NEtFOSAA-d5 (S)	94	%	70-130		1	04/05/21 09:51	04/08/21 04:17		
HFPO-DAS (S)	91	%	70-130		1	04/05/21 09:51	04/08/21 04:17		

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Sample: N-11295 **Lab ID: 70167673004** Collected: 04/01/21 09:42 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.13**	ug/L	0.020		1	04/06/21 12:55	04/07/21 03:28	123-91-1	M1
Surrogates									
1,4-Dioxane-d8 (S)	89	%	70-130		1	04/06/21 12:55	04/07/21 03:28		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 04:49	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 04:49	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 04:49	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 04:49	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	04/05/21 09:51	04/08/21 04:49	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	04/05/21 09:51	04/08/21 04:49	335-67-1	
Surrogates									
13C2-PFDA (S)	102	%	70-130		1	04/05/21 09:51	04/08/21 04:49		
13C2-PFHxA (S)	103	%	70-130		1	04/05/21 09:51	04/08/21 04:49		
NEtFOSAA-d5 (S)	97	%	70-130		1	04/05/21 09:51	04/08/21 04:49		
HFPO-DAS (S)	97	%	70-130		1	04/05/21 09:51	04/08/21 04:49		

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Sample: N-11107 **Lab ID: 70167673005** Collected: 04/01/21 09:25 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.10**	ug/L	0.020		1	04/06/21 12:55	04/07/21 04:01	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	04/06/21 12:55	04/07/21 04:01		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 04:33	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 04:33	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 04:33	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 04:33	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 04:33	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 04:33	335-67-1	
Surrogates									
13C2-PFDA (S)	105	%	70-130		1	04/05/21 09:51	04/08/21 04:33		
13C2-PFHxA (S)	105	%	70-130		1	04/05/21 09:51	04/08/21 04:33		
NEtFOSAA-d5 (S)	103	%	70-130		1	04/05/21 09:51	04/08/21 04:33		
HFPO-DAS (S)	98	%	70-130		1	04/05/21 09:51	04/08/21 04:33		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Sample: N-07781 **Lab ID: 70167673006** Collected: 04/01/21 09:55 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.54**	ug/L	0.020		1	04/06/21 12:55	04/07/21 04:51	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	04/06/21 12:55	04/07/21 04:51		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 05:04	375-73-5	
Perfluoroheptanoic acid	**1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 05:04	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 05:04	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 05:04	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	04/05/21 09:51	04/08/21 05:04	1763-23-1	
Perfluorooctanoic acid	**2.1**	ng/L	1.8	10	1	04/05/21 09:51	04/08/21 05:04	335-67-1	
Surrogates									
13C2-PFDA (S)	121	%	70-130		1	04/05/21 09:51	04/08/21 05:04		
13C2-PFHxA (S)	126	%	70-130		1	04/05/21 09:51	04/08/21 05:04		
NEtFOSAA-d5 (S)	116	%	70-130		1	04/05/21 09:51	04/08/21 05:04		
HFPO-DAS (S)	117	%	70-130		1	04/05/21 09:51	04/08/21 05:04		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Sample: N-08355 **Lab ID: 70167673007** Collected: 04/01/21 10:15 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**10.5**	ug/L	0.10		5	04/06/21 12:55	04/08/21 14:28	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		5	04/06/21 12:55	04/08/21 14:28		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 05:20	375-73-5	
Perfluoroheptanoic acid	**7.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 05:20	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 05:20	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 05:20	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 05:20	1763-23-1	
Perfluorooctanoic acid	**3.5**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 05:20	335-67-1	
Surrogates									
13C2-PFDA (S)	109	%	70-130		1	04/05/21 09:51	04/08/21 05:20		
13C2-PFHxA (S)	111	%	70-130		1	04/05/21 09:51	04/08/21 05:20		
NEtFOSAA-d5 (S)	104	%	70-130		1	04/05/21 09:51	04/08/21 05:20		
HFPO-DAS (S)	107	%	70-130		1	04/05/21 09:51	04/08/21 05:20		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Sample: N-13119 **Lab ID: 70167673008** Collected: 04/01/21 10:21 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**1.6**	ug/L	0.020		1	04/06/21 12:55	04/07/21 05:24	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	04/06/21 12:55	04/07/21 05:24		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 19:26	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 19:26	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 19:26	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 19:26	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	04/05/21 09:51	04/08/21 19:26	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	04/05/21 09:51	04/08/21 19:26	335-67-1	
Surrogates									
13C2-PFDA (S)	110	%	70-130		1	04/05/21 09:51	04/08/21 19:26		
13C2-PFHxA (S)	105	%	70-130		1	04/05/21 09:51	04/08/21 19:26		
NEtFOSAA-d5 (S)	105	%	70-130		1	04/05/21 09:51	04/08/21 19:26		
HFPO-DAS (S)	102	%	70-130		1	04/05/21 09:51	04/08/21 19:26		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Sample: N-13268 **Lab ID: 70167673009** Collected: 04/01/21 10:38 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.16**	ug/L	0.020		1	04/06/21 12:55	04/07/21 05:41	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	04/06/21 12:55	04/07/21 05:41		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 05:51	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 05:51	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 05:51	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	04/05/21 09:51	04/08/21 05:51	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	04/05/21 09:51	04/08/21 05:51	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	04/05/21 09:51	04/08/21 05:51	335-67-1	
Surrogates									
13C2-PFDA (S)	110	%	70-130		1	04/05/21 09:51	04/08/21 05:51		
13C2-PFHxA (S)	116	%	70-130		1	04/05/21 09:51	04/08/21 05:51		
NEtFOSAA-d5 (S)	103	%	70-130		1	04/05/21 09:51	04/08/21 05:51		
HFPO-DAS (S)	107	%	70-130		1	04/05/21 09:51	04/08/21 05:51		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Sample: N-03475 **Lab ID: 70167673010** Collected: 04/01/21 11:10 Received: 04/01/21 11:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.063**	ug/L	0.020		1	04/06/21 12:55	04/07/21 05:57	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	87	%	70-130		1	04/06/21 12:55	04/07/21 05:57		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 06:38	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 06:38	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 06:38	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	04/05/21 09:51	04/08/21 06:38	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 06:38	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	04/05/21 09:51	04/08/21 06:38	335-67-1	
Surrogates									
13C2-PFDA (S)	105	%	70-130		1	04/05/21 09:51	04/08/21 06:38		
13C2-PFHxA (S)	108	%	70-130		1	04/05/21 09:51	04/08/21 06:38		
NEtFOSAA-d5 (S)	102	%	70-130		1	04/05/21 09:51	04/08/21 06:38		
HFPO-DAS (S)	101	%	70-130		1	04/05/21 09:51	04/08/21 06:38		

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

QC Batch: 202766
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70167673001, 70167673002, 70167673003

METHOD BLANK: 998920
Matrix: Drinking Water
Associated Lab Samples: 70167673001, 70167673002, 70167673003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	04/06/21 19:39	
1,4-Dioxane-d8 (S)	%	95	70-130	04/06/21 19:39	

LABORATORY CONTROL SAMPLE: 998921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	4	3.8	95	70-130	
1,4-Dioxane-d8 (S)	%			93	70-130	

MATRIX SPIKE SAMPLE: 998922

Parameter	Units	70167675002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	4.9	4	8.7	95	70-130	E
1,4-Dioxane-d8 (S)	%				92	70-130	

SAMPLE DUPLICATE: 998923

Parameter	Units	70167675004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.14	0.13	3	20	
1,4-Dioxane-d8 (S)	%	96	91		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

QC Batch: 202897
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70167673004, 70167673005, 70167673006, 70167673007, 70167673008, 70167673009, 70167673010

METHOD BLANK: 999675
Matrix: Drinking Water
Associated Lab Samples: 70167673004, 70167673005, 70167673006, 70167673007, 70167673008, 70167673009, 70167673010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	04/07/21 02:55	
1,4-Dioxane-d8 (S)	%	85	70-130	04/07/21 02:55	

LABORATORY CONTROL SAMPLE: 999676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	0.025	125	70-130	
1,4-Dioxane-d8 (S)	%			92	70-130	

MATRIX SPIKE SAMPLE: 999677

Parameter	Units	70167673004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.13	0.02	0.17	191	70-130	M1
1,4-Dioxane-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 999678

Parameter	Units	70167673005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.10	0.11	8	20	
1,4-Dioxane-d8 (S)	%	93	91		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

QC Batch: 718402
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70167673001, 70167673002, 70167673003, 70167673004, 70167673005, 70167673006, 70167673007, 70167673008, 70167673009, 70167673010

METHOD BLANK: 3914690
Matrix: Water
Associated Lab Samples: 70167673001, 70167673002, 70167673003, 70167673004, 70167673005, 70167673006, 70167673007, 70167673008, 70167673009, 70167673010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	04/08/21 02:13	
Perfluoroheptanoic acid	ng/L	ND	2.0	04/08/21 02:13	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	04/08/21 02:13	
Perfluorononanoic acid	ng/L	ND	2.0	04/08/21 02:13	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	04/08/21 02:13	
Perfluorooctanoic acid	ng/L	ND	2.0	04/08/21 02:13	
13C2-PFDA (S)	%	101	70-130	04/08/21 02:13	
13C2-PFHxA (S)	%	102	70-130	04/08/21 02:13	
HFPO-DAS (S)	%	92	70-130	04/08/21 02:13	
NEtFOSAA-d5 (S)	%	96	70-130	04/08/21 02:13	

LABORATORY CONTROL SAMPLE: 3914691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	6.5	92	70-130	
Perfluoroheptanoic acid	ng/L	8	7.1	89	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	6.7	91	70-130	
Perfluorononanoic acid	ng/L	8	7.2	90	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	6.7	91	70-130	
Perfluorooctanoic acid	ng/L	8	7.0	88	70-130	
13C2-PFDA (S)	%			103	70-130	
13C2-PFHxA (S)	%			95	70-130	
HFPO-DAS (S)	%			96	70-130	
NEtFOSAA-d5 (S)	%			94	70-130	

LABORATORY CONTROL SAMPLE: 3914692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.4J	80	50-150	
Perfluoroheptanoic acid	ng/L	2	1.7J	85	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.7J	92	50-150	
Perfluorononanoic acid	ng/L	2	ND	86	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.6J	88	50-150	
Perfluorooctanoic acid	ng/L	2	1.7J	84	50-150	
13C2-PFDA (S)	%			98	70-130	
13C2-PFHxA (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

LABORATORY CONTROL SAMPLE: 3914692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
HFPO-DAS (S)	%			96	70-130	
NEtFOSAA-d5 (S)	%			93	70-130	

MATRIX SPIKE SAMPLE: 3914693

Parameter	Units	70167674005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	129	117	91	70-130	
Perfluoroheptanoic acid	ng/L	<1.8	146	133	91	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.8	133	127	95	70-130	
Perfluorononanoic acid	ng/L	<1.8	146	137	94	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.8	135	123	91	70-130	
Perfluorooctanoic acid	ng/L	<1.8	146	138	94	70-130	
13C2-PFDA (S)	%				100	70-130	
13C2-PFHxA (S)	%				103	70-130	
HFPO-DAS (S)	%				102	70-130	
NEtFOSAA-d5 (S)	%				93	70-130	

SAMPLE DUPLICATE: 3914694

Parameter	Units	70167673009 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	<1.8		30	
Perfluoroheptanoic acid	ng/L	<1.8	<1.8		30	
Perfluorohexanesulfonic acid	ng/L	<1.8	<1.8		30	
Perfluorononanoic acid	ng/L	<1.8	<1.8		30	
Perfluorooctanesulfonic acid	ng/L	<1.8	<1.8		30	
Perfluorooctanoic acid	ng/L	<1.8	<1.8		30	
13C2-PFDA (S)	%	110	111			
13C2-PFHxA (S)	%	116	111			
HFPO-DAS (S)	%	107	107			
NEtFOSAA-d5 (S)	%	103	108			

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QUALIFIERS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 70167673

[1] Samples were received on the same day of collection on ice and are above 6 degrees Celsius. Samples were placed on ice by the lab and the cooling process has begun.

SAMPLE QUALIFIERS

Sample: 70167673001

[1] Samples were received on the same day of collection on ice and are above 6 degrees Celsius. Samples were placed on ice by the lab and the cooling process has begun.

Sample: 70167673003

[1] RUN TO WASTE

Sample: 70167673007

[1] RUN TO WASTE

Sample: 70167673008

[1] RUN TO WASTE

Sample: 70167673009

[1] RUN TO WASTE

Sample: 70167673010

[1] RUN TO WASTE

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE/PFAS 4/1
Pace Project No.: 70167673

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70167673001	**N-08713**	EPA 522	202766	EPA 522	202911
70167673002	**N-14003**	EPA 522	202766	EPA 522	202911
70167673003	**N-05201**	EPA 522	202766	EPA 522	202911
70167673004	**N-11295**	EPA 522	202897	EPA 522	202971
70167673005	**N-11107**	EPA 522	202897	EPA 522	202971
70167673006	**N-07781**	EPA 522	202897	EPA 522	202971
70167673007	**N-08355**	EPA 522	202897	EPA 522	202971
70167673008	**N-13119**	EPA 522	202897	EPA 522	202971
70167673009	**N-13268**	EPA 522	202897	EPA 522	202971
70167673010	**N-03475**	EPA 522	202897	EPA 522	202971
70167673001	**N-08713**	EPA 537.1	718402	EPA 537.1	718748
70167673002	**N-14003**	EPA 537.1	718402	EPA 537.1	718748
70167673003	**N-05201**	EPA 537.1	718402	EPA 537.1	718748
70167673004	**N-11295**	EPA 537.1	718402	EPA 537.1	718748
70167673005	**N-11107**	EPA 537.1	718402	EPA 537.1	718748
70167673006	**N-07781**	EPA 537.1	718402	EPA 537.1	718748
70167673007	**N-08355**	EPA 537.1	718402	EPA 537.1	718748
70167673008	**N-13119**	EPA 537.1	718402	EPA 537.1	718748
70167673009	**N-13268**	EPA 537.1	718402	EPA 537.1	718748
70167673010	**N-03475**	EPA 537.1	718402	EPA 537.1	718748

WO#: 70167673

70167673

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 4-1-21

Collected By: TK (13)

Accepted By: [signature]

Cooler Temp: 8.1 °C 1136 4/1/21

☐ WELL OFF LINE

☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water Dist.

Address: 125 Convent Rd
Syosset N.Y 11791

Phone #: (516) 921-8280

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location		Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
4-1-21 08:25	PW	well #27 N-08713	Ran to System	RW		RO	Ø		1,4- Dioxane	
4-1-21 08:42	PW	well #28 N- 14003	Ran to System	RW		RO	Ø		" "	
4-1-21 08:54	PW	well #11 N-05201	Ran to Waste	RW		RO	Ø		" "	
4-1-21	PW	~~well #7 N-03475~~	~~Ran to Waste~~	~~RW~~		~~RO~~	~~Ø~~		~~" "~~	
4-1-21 09:42	PW	well #30 N- 11295	Ran to System	RW		RO	Ø		" "	
4-1-21 09:25	PW	well #29 N- 11107	Ran to System	RW		RO	Ø		" "	
4-1-21 09:55	PW	well #22 N- 07781	Ran to System	RW		RO	Ø		" "	
4-1-21 10:15	PW	well #25 N- 08355	Ran to Waste	RW		RO	Ø		" "	
4-1-21 10:21	PW	well # 26 N- 13119	Ran to Waste	RW		RO	Ø		" "	
4-1-21 10:38	PW	well #31 N- 13268	Ran to Waste	RW		RO	Ø		1.4- Dioxane	
4-1-21 11:10	PW	well #7 N- 03475	Ran to Waste	RW		RO	Ø		1,4- Dioxane	

Remarks:

WO#: 70167673

PM: JSA Due Date: 04/13/21

CLIENT: JWD

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 4.1.21

Collected By: TK (B)

Accepted By: Mary S

Cooler Temp: 8.4 °C 4/1/21 1136

☐ WELL OFF LINE _____

☐ WELL RUN TO SYSTEM _____

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water Dist.

Address: 125 Convent Rd
Syosset N.Y 11791

Phone #: (516) 921-8280

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location		Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
4.1.21 08:25	PW	well #27 N-08713	Ran to System	RW		RO	Ø		PFOS / PFOA	
4.1.21 08:42	PW	well #28 N-14003	Ran to System	RW		RO	Ø		" "	
4.1.21 08:54	PW	well #11 N-05201	Ran to Waste	RW		RO	Ø		" "	
4-1-21	PW	~~well #7 N-03475~~	~~Ran to Waste~~	~~RW~~		~~RO~~	Ø		~~" "~~	
4.1.21 09:42	PW	well #30 N-11295	Ran to System	RW		RO	Ø		" "	
4.1.21 09:25	PW	well #29 N-11107	Ran to System	RW		RO	Ø		" "	
4-1-21 09:55 ~~09:42~~	PW	well #22 N-07781	Ran to System	RW		RO	Ø		" "	
4.1.21 10:15	PW	well #25 N-08355	Ran to Waste	RW		RO	Ø		" "	
4.1.21 10:21	PW	well #26 N-13119	Ran to Waste	RW		RO	Ø		" "	
4.1.21 10:38	PW	well #31 N-13268	Ran to Waste	RW		RO	Ø		PFOS / PFOA	
4.1.21 11:10	PW	well #7 N-03475	Ran to Waste	RW		RO	Ø		PFOS / PFOA	

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70167673
PM: JSA **Due Date: 04/13/21**
CLIENT: JWD

Client Name: Jericho Water

Projec

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

Tracking #:

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

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 8.1 Cooler Temperature Corrected(°C): 8.1

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet (Blue) None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: CH 4/2/21

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL WT OIL				
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

May 11, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on May 03, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Allen Fok, D & B Engineers
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Virginia Certification # 460302
Delaware Certification # NY10478
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
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SAMPLE SUMMARY

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70171336001	**N-00198**	Drinking Water	05/03/21 08:45	05/03/21 12:27
70171336002	**N-07772**	Drinking Water	05/03/21 09:22	05/03/21 12:27
70171336003	**N-07773**	Drinking Water	05/03/21 09:37	05/03/21 12:27
70171336004	**N-12795**	Drinking Water	05/03/21 10:17	05/03/21 12:27
70171336005	**N-06093**	Drinking Water	05/03/21 10:58	05/03/21 12:27
70171336006	**N-06092**	Drinking Water	05/03/21 11:10	05/03/21 12:27
70171336007	**N-08043**	Drinking Water	05/03/21 11:40	05/03/21 12:27

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SAMPLE ANALYTE COUNT

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70171336001	**N-00198**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171336002	**N-07772**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171336003	**N-07773**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171336004	**N-12795**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171336005	**N-06093**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171336006	**N-06092**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171336007	**N-08043**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O

PACE-MV = Pace Analytical Services - Melville
PASI-O = Pace Analytical Services - Ormond Beach

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

Sample: N-00198 **Lab ID: 70171336001** Collected: 05/03/21 08:45 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.51**	ug/L	0.020		1	05/08/21 14:22	05/10/21 15:09	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	05/08/21 14:22	05/10/21 15:09		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 11:42	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 11:42	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 11:42	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 11:42	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 11:42	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 11:42	335-67-1	
Surrogates									
13C2-PFDA (S)	98	%	70-130		1	05/06/21 09:28	05/09/21 11:42		
13C2-PFHxA (S)	89	%	70-130		1	05/06/21 09:28	05/09/21 11:42		
NEtFOSAA-d5 (S)	105	%	70-130		1	05/06/21 09:28	05/09/21 11:42		
HFPO-DAS (S)	76	%	70-130		1	05/06/21 09:28	05/09/21 11:42		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

Sample: N-07772 **Lab ID: 70171336002** Collected: 05/03/21 09:22 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.22**	ug/L	0.020		1	05/08/21 14:22	05/10/21 15:50	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	05/08/21 14:22	05/10/21 15:50		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 12:01	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 12:01	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 12:01	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 12:01	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 12:01	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 12:01	335-67-1	
Surrogates									
13C2-PFDA (S)	103	%	70-130		1	05/06/21 09:28	05/09/21 12:01		
13C2-PFHxA (S)	97	%	70-130		1	05/06/21 09:28	05/09/21 12:01		
NEtFOSAA-d5 (S)	112	%	70-130		1	05/06/21 09:28	05/09/21 12:01		
HFPO-DAS (S)	85	%	70-130		1	05/06/21 09:28	05/09/21 12:01		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

Sample: N-07773 **Lab ID: 70171336003** Collected: 05/03/21 09:37 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.17**	ug/L	0.020		1	05/08/21 14:22	05/10/21 16:31	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	05/08/21 14:22	05/10/21 16:31		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	05/06/21 09:28	05/09/21 12:19	375-73-5	
Perfluoroheptanoic acid	**18.9**	ng/L	1.8		1	05/06/21 09:28	05/09/21 12:19	375-85-9	
Perfluorohexanesulfonic acid	**2.0**	ng/L	1.8		1	05/06/21 09:28	05/09/21 12:19	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	05/06/21 09:28	05/09/21 12:19	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	05/06/21 09:28	05/09/21 12:19	1763-23-1	
Perfluorooctanoic acid	**5.9**	ng/L	1.8	10	1	05/06/21 09:28	05/09/21 12:19	335-67-1	
Surrogates									
13C2-PFDA (S)	86	%	70-130		1	05/06/21 09:28	05/09/21 12:19		
13C2-PFHxA (S)	92	%	70-130		1	05/06/21 09:28	05/09/21 12:19		
NEtFOSAA-d5 (S)	96	%	70-130		1	05/06/21 09:28	05/09/21 12:19		
HFPO-DAS (S)	89	%	70-130		1	05/06/21 09:28	05/09/21 12:19		

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

Sample: N-12795 **Lab ID: 70171336004** Collected: 05/03/21 10:17 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.43**	ug/L	0.020		1	05/08/21 14:22	05/10/21 16:51	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	05/08/21 14:22	05/10/21 16:51		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 12:38	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 12:38	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 12:38	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 12:38	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 12:38	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 12:38	335-67-1	
Surrogates									
13C2-PFDA (S)	102	%	70-130		1	05/06/21 09:28	05/09/21 12:38		
13C2-PFHxA (S)	95	%	70-130		1	05/06/21 09:28	05/09/21 12:38		
NEtFOSAA-d5 (S)	111	%	70-130		1	05/06/21 09:28	05/09/21 12:38		
HFPO-DAS (S)	95	%	70-130		1	05/06/21 09:28	05/09/21 12:38		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

Sample: N-06093 **Lab ID: 70171336005** Collected: 05/03/21 10:58 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.13**	ug/L	0.020		1	05/08/21 14:22	05/10/21 17:12	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	05/08/21 14:22	05/10/21 17:12		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 12:56	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 12:56	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 12:56	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 12:56	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 12:56	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 12:56	335-67-1	
Surrogates									
13C2-PFDA (S)	97	%	70-130		1	05/06/21 09:28	05/09/21 12:56		
13C2-PFHxA (S)	95	%	70-130		1	05/06/21 09:28	05/09/21 12:56		
NEtFOSAA-d5 (S)	110	%	70-130		1	05/06/21 09:28	05/09/21 12:56		
HFPO-DAS (S)	91	%	70-130		1	05/06/21 09:28	05/09/21 12:56		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

Sample: N-06092 **Lab ID: 70171336006** Collected: 05/03/21 11:10 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.029**	ug/L	0.020		1	05/08/21 14:22	05/10/21 17:53	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	05/08/21 14:22	05/10/21 17:53		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 13:15	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 13:15	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 13:15	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	05/06/21 09:28	05/09/21 13:15	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 13:15	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 13:15	335-67-1	
Surrogates									
13C2-PFDA (S)	106	%	70-130		1	05/06/21 09:28	05/09/21 13:15		
13C2-PFHxA (S)	97	%	70-130		1	05/06/21 09:28	05/09/21 13:15		
NEtFOSAA-d5 (S)	111	%	70-130		1	05/06/21 09:28	05/09/21 13:15		
HFPO-DAS (S)	93	%	70-130		1	05/06/21 09:28	05/09/21 13:15		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

Sample: N-08043 **Lab ID: 70171336007** Collected: 05/03/21 11:40 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.27**	ug/L	0.020		1	05/08/21 14:22	05/10/21 18:13	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	91	%	70-130		1	05/08/21 14:22	05/10/21 18:13		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	05/06/21 09:28	05/10/21 10:43	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	05/06/21 09:28	05/10/21 10:43	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	05/06/21 09:28	05/10/21 10:43	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	05/06/21 09:28	05/10/21 10:43	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	05/06/21 09:28	05/10/21 10:43	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	05/06/21 09:28	05/10/21 10:43	335-67-1	
Surrogates									
13C2-PFDA (S)	98	%	70-130		1	05/06/21 09:28	05/10/21 10:43		
13C2-PFHxA (S)	91	%	70-130		1	05/06/21 09:28	05/10/21 10:43		
HFPO-DAS (S)	101	%	70-130		1	05/06/21 09:28	05/10/21 10:43		

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

QC Batch: 207739
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70171336001, 70171336002, 70171336003, 70171336004, 70171336005, 70171336006, 70171336007

METHOD BLANK: 1032727
Matrix: Drinking Water
Associated Lab Samples: 70171336001, 70171336002, 70171336003, 70171336004, 70171336005, 70171336006, 70171336007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	05/10/21 14:07	
1,4-Dioxane-d8 (S)	%	93	70-130	05/10/21 14:07	

LABORATORY CONTROL SAMPLE: 1032728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.8	92	70-130	
1,4-Dioxane-d8 (S)	%			92	70-130	

MATRIX SPIKE SAMPLE: 1032729

Parameter	Units	70171336001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.51	2	2.4	95	70-130	
1,4-Dioxane-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1032730

Parameter	Units	70171336002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.22	0.23	4	20	
1,4-Dioxane-d8 (S)	%	97	97		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

QC Batch: 726895
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70171336001, 70171336002, 70171336003, 70171336004, 70171336005, 70171336006, 70171336007

METHOD BLANK: 3961768
Matrix: Water
Associated Lab Samples: 70171336001, 70171336002, 70171336003, 70171336004, 70171336005, 70171336006, 70171336007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	05/09/21 06:29	
Perfluoroheptanoic acid	ng/L	ND	2.0	05/09/21 06:29	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	05/09/21 06:29	
Perfluorononanoic acid	ng/L	ND	2.0	05/09/21 06:29	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	05/09/21 06:29	
Perfluorooctanoic acid	ng/L	ND	2.0	05/09/21 06:29	
13C2-PFDA (S)	%	95	70-130	05/09/21 06:29	
13C2-PFHxA (S)	%	94	70-130	05/09/21 06:29	
HFPO-DAS (S)	%	87	70-130	05/09/21 06:29	
NEtFOSAA-d5 (S)	%	90	70-130	05/09/21 06:29	

LABORATORY CONTROL SAMPLE: 3961769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	6.6	93	70-130	
Perfluoroheptanoic acid	ng/L	8	7.5	94	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	6.6	90	70-130	
Perfluorononanoic acid	ng/L	8	7.3	91	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	7.3	98	70-130	
Perfluorooctanoic acid	ng/L	8	7.7	96	70-130	
13C2-PFDA (S)	%			94	70-130	
13C2-PFHxA (S)	%			95	70-130	
HFPO-DAS (S)	%			86	70-130	
NEtFOSAA-d5 (S)	%			97	70-130	

LABORATORY CONTROL SAMPLE: 3961770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.5J	86	50-150	
Perfluoroheptanoic acid	ng/L	2	1.9J	94	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.7J	94	50-150	
Perfluorononanoic acid	ng/L	2	2.0	100	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	2.2	121	50-150	
Perfluorooctanoic acid	ng/L	2	2.1	104	50-150	
13C2-PFDA (S)	%			102	70-130	
13C2-PFHxA (S)	%			96	70-130	
HFPO-DAS (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

LABORATORY CONTROL SAMPLE: 3961770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			118	70-130	

MATRIX SPIKE SAMPLE: 3961771

Parameter	Units	70171385011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	1.7	3.5	94	70-130	
Perfluoroheptanoic acid	ng/L	3.2	1.9	4.7	76	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.9	1.7	3.1	95	70-130	
Perfluorononanoic acid	ng/L	2.3	1.9	3.9	85	70-130	
Perfluorooctanesulfonic acid	ng/L	4.1	1.8	5.5	80	70-130	
Perfluorooctanoic acid	ng/L	9.9	1.9	11.7	92	70-130	
13C2-PFDA (S)	%				104	70-130	
13C2-PFHxA (S)	%				95	70-130	
HFPO-DAS (S)	%				88	70-130	
NEtFOSAA-d5 (S)	%				107	70-130	

SAMPLE DUPLICATE: 3961772

Parameter	Units	70171385008 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluoroheptanoic acid	ng/L	<1.8	<1.9		30	
Perfluorohexanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluorononanoic acid	ng/L	<1.8	<1.9		30	
Perfluorooctanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluorooctanoic acid	ng/L	<1.8	<1.9		30	
13C2-PFDA (S)	%	111	112			
13C2-PFHxA (S)	%	100	102			
HFPO-DAS (S)	%	84	89			
NEtFOSAA-d5 (S)	%	113	120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 70171336

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

SAMPLE QUALIFIERS

Sample: 70171336001

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171336

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70171336001	**N-00198**	EPA 522	207739	EPA 522	207796
70171336002	**N-07772**	EPA 522	207739	EPA 522	207796
70171336003	**N-07773**	EPA 522	207739	EPA 522	207796
70171336004	**N-12795**	EPA 522	207739	EPA 522	207796
70171336005	**N-06093**	EPA 522	207739	EPA 522	207796
70171336006	**N-06092**	EPA 522	207739	EPA 522	207796
70171336007	**N-08043**	EPA 522	207739	EPA 522	207796
70171336001	**N-00198**	EPA 537.1	726895	EPA 537.1	727642
70171336002	**N-07772**	EPA 537.1	726895	EPA 537.1	727642
70171336003	**N-07773**	EPA 537.1	726895	EPA 537.1	727642
70171336004	**N-12795**	EPA 537.1	726895	EPA 537.1	727642
70171336005	**N-06093**	EPA 537.1	726895	EPA 537.1	727642
70171336006	**N-06092**	EPA 537.1	726895	EPA 537.1	727642
70171336007	**N-08043**	EPA 537.1	726895	EPA 537.1	727642

WO#: 70171336

70171336

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 5/3/21

Collected By: CS

Accepted By: [signature] (B)

Cooler Temp: 12.3 °C 5/3/21 1227

☐ WELL OFF LINE

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water

Address: 125 Convent Rd
Syosset, NY 11791

Phone #: (516) 921-8280

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
5/3/21 8:45am	PW	Ran to system Well 3 H-00195	RW		RO			PFOS/PFOA	
5/3/21 9:22am	PW	Ran to system Well 18 H-07772	RW		RO			PFOS/PFOA	
5/3/21 9:37am	PW	Ran to system Well 19 H-07773	RW		RO			PFOS/PFOA	
5/3/21 10:17am	PW	Ran to system Well 21 H-12795	RW		RO			PFOS/PFOA	
5/3/21 10:58am	PW	Ran to system Well 13 H-06093	RW		RO			PFOS/PFOA	
5/3/21 11:10am	PW	Ran to system Well 12 H-06092	RW		RO			PFOS/PFOA	
5/3/21 11:40am	PW	Ran to system Well 23 H-08043	RW		RO			PFOS/PFOA	

Remarks:

Pace Analytical®
www.pacelabs.com
575 Broad Hollow Rd., Melville, NY 11747
(631) 694-3040 Fax: (631) 420-8436

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 5/3/21
Collected By: CS
Accepted By: [signature]
Cooler Temp: 12.3 °C 5/3/21 1227

(B)

☐ WELL OFF LINE _____

☐ WELL RUN TO SYSTEM _____

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:
Name or Code: Jericho Water
Address: 125 Convent Rd
Syosset, NY 11791
Phone #: (516) 921-8280
Attn:
Proj. # or (Name):
Bill To:
Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
5/3/21 8:45am	PW	Ran to system Well 13 H-00198	RW		RO			1,4 Dioxane	
5/3/21 9:22am	PW	Ran to system Well 15 H-07772	RW		RO			1.4 Dioxane	
5/3/21 9:37am	PW	Ran to system Well 19 H-07773	RW		RO			1.4 Dioxane	
5/3/21 10:17am	PW	Ran to system Well 21 H-12795	RW		RO			1.4 Dioxane	
5/3/21 10:58am	PW	Ran to system Well 13 H-06093	RW		RO			1.4 Dioxane	
5/3/21 11:10am	PW	Ran to system Well 12 H-06092	RW		RO			1.4 Dioxane	
5/3/21 11:40am	PW	Ran to system Well 23 H-08043	RW		RO			1.4 Dioxane	

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70171336
PM: JSA **Due Date: 05/13/21**
CLIENT: JWD

Client Name: Jericho

Projec

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

Tracking #:

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 12.3 Cooler Temperature Corrected(°C): 12.3

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet (Blue) None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: MS 5/3/21

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID, Matrix: SL (WT) OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

May 11, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on May 03, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Allen Fok, D & B Engineers
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Virginia Certification # 460302
Delaware Certification # NY10478
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE SUMMARY

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70171337001	**N-08713**	Drinking Water	05/03/21 10:28	05/03/21 12:27
70171337002	**N-14003**	Drinking Water	05/03/21 10:48	05/03/21 12:27
70171337003	**N-05201**	Drinking Water	05/03/21 11:08	05/03/21 12:27
70171337004	**N-03475**	Drinking Water	05/03/21 10:03	05/03/21 12:27
70171337005	**N-11295**	Drinking Water	05/03/21 09:14	05/03/21 12:27
70171337006	**N-11107**	Drinking Water	05/03/21 09:27	05/03/21 12:27
70171337007	**N-07781**	Drinking Water	05/03/21 08:05	05/03/21 12:27
70171337008	**N-08355**	Drinking Water	05/03/21 08:21	05/03/21 12:27
70171337009	**N-13119**	Drinking Water	05/03/21 08:33	05/03/21 12:27
70171337010	**N-13268**	Drinking Water	05/03/21 09:03	05/03/21 12:27

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70171337001	**N-08713**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171337002	**N-14003**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171337003	**N-05201**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171337004	**N-03475**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171337005	**N-11295**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171337006	**N-11107**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171337007	**N-07781**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171337008	**N-08355**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171337009	**N-13119**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171337010	**N-13268**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O

PACE-MV = Pace Analytical Services - Melville
PASI-O = Pace Analytical Services - Ormond Beach

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Sample: N-08713 **Lab ID: 70171337001** Collected: 05/03/21 10:28 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.34**	ug/L	0.020		1	05/08/21 14:22	05/10/21 18:33	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	05/08/21 14:22	05/10/21 18:33		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.1**	ng/L	2.1		1	05/05/21 10:25	05/07/21 07:39	375-73-5	
Perfluoroheptanoic acid	**<2.1**	ng/L	2.1		1	05/05/21 10:25	05/07/21 07:39	375-85-9	
Perfluorohexanesulfonic acid	**<2.1**	ng/L	2.1		1	05/05/21 10:25	05/07/21 07:39	355-46-4	
Perfluorononanoic acid	**<2.1**	ng/L	2.1		1	05/05/21 10:25	05/07/21 07:39	375-95-1	
Perfluorooctanesulfonic acid	**<2.1**	ng/L	2.1	10	1	05/05/21 10:25	05/07/21 07:39	1763-23-1	
Perfluorooctanoic acid	**<2.1**	ng/L	2.1	10	1	05/05/21 10:25	05/07/21 07:39	335-67-1	
Surrogates									
13C2-PFDA (S)	125	%	70-130		1	05/05/21 10:25	05/07/21 07:39		
13C2-PFHxA (S)	108	%	70-130		1	05/05/21 10:25	05/07/21 07:39		
NEtFOSAA-d5 (S)	112	%	70-130		1	05/05/21 10:25	05/07/21 07:39		
HFPO-DAS (S)	87	%	70-130		1	05/05/21 10:25	05/07/21 07:39		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Sample: N-14003 **Lab ID: 70171337002** Collected: 05/03/21 10:48 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.11**	ug/L	0.020		1	05/08/21 14:22	05/10/21 18:54	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	05/08/21 14:22	05/10/21 18:54		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/07/21 07:57	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/07/21 07:57	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/07/21 07:57	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/07/21 07:57	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	05/05/21 10:25	05/07/21 07:57	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	05/05/21 10:25	05/07/21 07:57	335-67-1	
Surrogates									
13C2-PFDA (S)	120	%	70-130		1	05/05/21 10:25	05/07/21 07:57		
13C2-PFHxA (S)	107	%	70-130		1	05/05/21 10:25	05/07/21 07:57		
NEtFOSAA-d5 (S)	123	%	70-130		1	05/05/21 10:25	05/07/21 07:57		
HFPO-DAS (S)	86	%	70-130		1	05/05/21 10:25	05/07/21 07:57		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Sample: N-05201 **Lab ID: 70171337003** Collected: 05/03/21 11:08 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**<0.020**	ug/L	0.020		1	05/08/21 14:22	05/10/21 19:14	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	05/08/21 14:22	05/10/21 19:14		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/07/21 08:16	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/07/21 08:16	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/07/21 08:16	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/07/21 08:16	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	05/05/21 10:25	05/07/21 08:16	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	05/05/21 10:25	05/07/21 08:16	335-67-1	
Surrogates									
13C2-PFDA (S)	116	%	70-130		1	05/05/21 10:25	05/07/21 08:16		
13C2-PFHxA (S)	106	%	70-130		1	05/05/21 10:25	05/07/21 08:16		
NEtFOSAA-d5 (S)	126	%	70-130		1	05/05/21 10:25	05/07/21 08:16		
HFPO-DAS (S)	92	%	70-130		1	05/05/21 10:25	05/07/21 08:16		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Sample: N-03475 **Lab ID: 70171337004** Collected: 05/03/21 10:03 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.052**	ug/L	0.020		1	05/08/21 14:22	05/10/21 19:35	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	05/08/21 14:22	05/10/21 19:35		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 06:35	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 06:35	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 06:35	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 06:35	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	05/05/21 10:25	05/08/21 06:35	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	05/05/21 10:25	05/08/21 06:35	335-67-1	
Surrogates									
13C2-PFDA (S)	120	%	70-130		1	05/05/21 10:25	05/08/21 06:35		
13C2-PFHxA (S)	116	%	70-130		1	05/05/21 10:25	05/08/21 06:35		
NEtFOSAA-d5 (S)	126	%	70-130		1	05/05/21 10:25	05/08/21 06:35		
HFPO-DAS (S)	98	%	70-130		1	05/05/21 10:25	05/08/21 06:35		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Sample: N-11295 **Lab ID: 70171337005** Collected: 05/03/21 09:14 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.064**	ug/L	0.020		1	05/08/21 14:22	05/10/21 19:54	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	05/08/21 14:22	05/10/21 19:54		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	05/05/21 10:25	05/07/21 06:43	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	05/05/21 10:25	05/07/21 06:43	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	05/05/21 10:25	05/07/21 06:43	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	05/05/21 10:25	05/07/21 06:43	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	05/05/21 10:25	05/07/21 06:43	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	05/05/21 10:25	05/07/21 06:43	335-67-1	
Surrogates									
13C2-PFDA (S)	95	%	70-130		1	05/05/21 10:25	05/07/21 06:43		
13C2-PFHxA (S)	85	%	70-130		1	05/05/21 10:25	05/07/21 06:43		
NEtFOSAA-d5 (S)	98	%	70-130		1	05/05/21 10:25	05/07/21 06:43		
HFPO-DAS (S)	71	%	70-130		1	05/05/21 10:25	05/07/21 06:43		

Pace Analytical Services, LLC
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(631)694-3040

ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Sample: N-11107 **Lab ID: 70171337006** Collected: 05/03/21 09:27 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.13**	ug/L	0.020		1	05/08/21 14:22	05/10/21 20:15	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	05/08/21 14:22	05/10/21 20:15		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 06:16	375-73-5	
Perfluoroheptanoic acid	**2.0**	ng/L	1.9		1	05/05/21 10:25	05/08/21 06:16	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 06:16	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 06:16	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	05/05/21 10:25	05/08/21 06:16	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	05/05/21 10:25	05/08/21 06:16	335-67-1	
Surrogates									
13C2-PFDA (S)	113	%	70-130		1	05/05/21 10:25	05/08/21 06:16		
13C2-PFHxA (S)	115	%	70-130		1	05/05/21 10:25	05/08/21 06:16		
NEtFOSAA-d5 (S)	122	%	70-130		1	05/05/21 10:25	05/08/21 06:16		
HFPO-DAS (S)	81	%	70-130		1	05/05/21 10:25	05/08/21 06:16		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Sample: N-07781 **Lab ID: 70171337007** Collected: 05/03/21 08:05 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.52**	ug/L	0.020		1	05/08/21 14:22	05/10/21 20:35	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	89	%	70-130		1	05/08/21 14:22	05/10/21 20:35		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	05/05/21 10:25	05/08/21 04:26	375-73-5	
Perfluoroheptanoic acid	**2.1**	ng/L	1.8		1	05/05/21 10:25	05/08/21 04:26	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	05/05/21 10:25	05/08/21 04:26	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	05/05/21 10:25	05/08/21 04:26	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	05/05/21 10:25	05/08/21 04:26	1763-23-1	
Perfluorooctanoic acid	**2.1**	ng/L	1.8	10	1	05/05/21 10:25	05/08/21 04:26	335-67-1	
Surrogates									
13C2-PFDA (S)	116	%	70-130		1	05/05/21 10:25	05/08/21 04:26		
13C2-PFHxA (S)	116	%	70-130		1	05/05/21 10:25	05/08/21 04:26		
NEtFOSAA-d5 (S)	115	%	70-130		1	05/05/21 10:25	05/08/21 04:26		
HFPO-DAS (S)	75	%	70-130		1	05/05/21 10:25	05/08/21 04:26		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Sample: N-08355 **Lab ID: 70171337008** Collected: 05/03/21 08:21 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**6.2**	ug/L	0.10		5	05/08/21 14:22	05/11/21 15:31	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		5	05/08/21 14:22	05/11/21 15:31		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 05:03	375-73-5	
Perfluoroheptanoic acid	**8.8**	ng/L	1.9		1	05/05/21 10:25	05/08/21 05:03	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 05:03	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 05:03	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	05/05/21 10:25	05/08/21 05:03	1763-23-1	
Perfluorooctanoic acid	**3.9**	ng/L	1.9	10	1	05/05/21 10:25	05/08/21 05:03	335-67-1	
Surrogates									
13C2-PFDA (S)	114	%	70-130		1	05/05/21 10:25	05/08/21 05:03		
13C2-PFHxA (S)	117	%	70-130		1	05/05/21 10:25	05/08/21 05:03		
NEtFOSAA-d5 (S)	117	%	70-130		1	05/05/21 10:25	05/08/21 05:03		
HFPO-DAS (S)	100	%	70-130		1	05/05/21 10:25	05/08/21 05:03		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Sample: N-13119 **Lab ID: 70171337009** Collected: 05/03/21 08:33 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**2.1**	ug/L	0.020		1	05/08/21 14:22	05/10/21 21:36	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	05/08/21 14:22	05/10/21 21:36		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/07/21 06:07	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/07/21 06:07	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/07/21 06:07	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/07/21 06:07	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	05/05/21 10:25	05/07/21 06:07	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	05/05/21 10:25	05/07/21 06:07	335-67-1	
Surrogates									
13C2-PFDA (S)	126	%	70-130		1	05/05/21 10:25	05/07/21 06:07		
13C2-PFHxA (S)	108	%	70-130		1	05/05/21 10:25	05/07/21 06:07		
NEtFOSAA-d5 (S)	125	%	70-130		1	05/05/21 10:25	05/07/21 06:07		
HFPO-DAS (S)	88	%	70-130		1	05/05/21 10:25	05/07/21 06:07		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Sample: N-13268 **Lab ID: 70171337010** Collected: 05/03/21 09:03 Received: 05/03/21 12:27 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.17**	ug/L	0.020		1	05/08/21 14:22	05/10/21 21:56	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	100	%	70-130		1	05/08/21 14:22	05/10/21 21:56		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 05:40	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 05:40	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 05:40	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	05/05/21 10:25	05/08/21 05:40	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	05/05/21 10:25	05/08/21 05:40	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	05/05/21 10:25	05/08/21 05:40	335-67-1	
Surrogates									
13C2-PFDA (S)	112	%	70-130		1	05/05/21 10:25	05/08/21 05:40		
13C2-PFHxA (S)	110	%	70-130		1	05/05/21 10:25	05/08/21 05:40		
NEtFOSAA-d5 (S)	119	%	70-130		1	05/05/21 10:25	05/08/21 05:40		
HFPO-DAS (S)	98	%	70-130		1	05/05/21 10:25	05/08/21 05:40		

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

QC Batch: 207739
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70171337001, 70171337002, 70171337003, 70171337004, 70171337005, 70171337006, 70171337007, 70171337008, 70171337009, 70171337010

METHOD BLANK: 1032727
Matrix: Drinking Water
Associated Lab Samples: 70171337001, 70171337002, 70171337003, 70171337004, 70171337005, 70171337006, 70171337007, 70171337008, 70171337009, 70171337010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	05/10/21 14:07	
1,4-Dioxane-d8 (S)	%	93	70-130	05/10/21 14:07	

LABORATORY CONTROL SAMPLE: 1032728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.8	92	70-130	
1,4-Dioxane-d8 (S)	%			92	70-130	

MATRIX SPIKE SAMPLE: 1032729

Parameter	Units	70171336001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.51	2	2.4	95	70-130	
1,4-Dioxane-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1032730

Parameter	Units	70171336002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.22	0.23	4	20	
1,4-Dioxane-d8 (S)	%	97	97		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

QC Batch: 726544
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70171337001, 70171337002, 70171337003, 70171337004, 70171337005, 70171337006, 70171337007, 70171337008, 70171337009, 70171337010

METHOD BLANK: 3959901
Matrix: Water
Associated Lab Samples: 70171337001, 70171337002, 70171337003, 70171337004, 70171337005, 70171337006, 70171337007, 70171337008, 70171337009, 70171337010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	05/07/21 00:16	
Perfluoroheptanoic acid	ng/L	ND	2.0	05/07/21 00:16	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	05/07/21 00:16	
Perfluorononanoic acid	ng/L	ND	2.0	05/07/21 00:16	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	05/07/21 00:16	
Perfluorooctanoic acid	ng/L	ND	2.0	05/07/21 00:16	
13C2-PFDA (S)	%	108	70-130	05/07/21 00:16	
13C2-PFHxA (S)	%	94	70-130	05/07/21 00:16	
HFPO-DAS (S)	%	70	70-130	05/07/21 00:16	
NEtFOSAA-d5 (S)	%	119	70-130	05/07/21 00:16	

LABORATORY CONTROL SAMPLE: 3959902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	142	130	92	70-130	
Perfluoroheptanoic acid	ng/L	160	151	94	70-130	
Perfluorohexanesulfonic acid	ng/L	146	131	89	70-130	
Perfluorononanoic acid	ng/L	160	145	91	70-130	
Perfluorooctanesulfonic acid	ng/L	148	129	87	70-130	
Perfluorooctanoic acid	ng/L	160	142	89	70-130	
13C2-PFDA (S)	%			104	70-130	
13C2-PFHxA (S)	%			99	70-130	
HFPO-DAS (S)	%			87	70-130	
NEtFOSAA-d5 (S)	%			97	70-130	

LABORATORY CONTROL SAMPLE: 3959903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.7J	97	50-150	
Perfluoroheptanoic acid	ng/L	2	2.1	104	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	2.1	116	50-150	
Perfluorononanoic acid	ng/L	2	2.0	100	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	ND	106	50-150	
Perfluorooctanoic acid	ng/L	2	2.0	100	50-150	
13C2-PFDA (S)	%			111	70-130	
13C2-PFHxA (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

LABORATORY CONTROL SAMPLE: 3959903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
HFPO-DAS (S)	%			84	70-130	
NEtFOSAA-d5 (S)	%			122	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3959904 3959905

Parameter	Units	35629347001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Perfluorobutanesulfonic acid	ng/L	<0.61	131	132	117	115	90	87	70-130	2	30	
Perfluoroheptanoic acid	ng/L	<0.93	148	149	139	131	94	88	70-130	6	30	
Perfluorohexanesulfonic acid	ng/L	<0.68	135	136	124	122	92	90	70-130	2	30	
Perfluorononanoic acid	ng/L	<1.8	148	149	143	134	97	90	70-130	6	30	
Perfluorooctanesulfonic acid	ng/L	<1.1	137	138	131	128	95	92	70-130	2	30	
Perfluorooctanoic acid	ng/L	<0.81	148	149	133	127	90	85	70-130	5	30	
13C2-PFDA (S)	%						107	107	70-130			
13C2-PFHxA (S)	%						98	92	70-130			
HFPO-DAS (S)	%						87	64	70-130			S0
NEtFOSAA-d5 (S)	%						108	100	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 70171337

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

SAMPLE QUALIFIERS

Sample: 70171337001

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

Sample: 70171337003

[1] RUN TO WASTE

Sample: 70171337004

[1] RUN TO WASTE

Sample: 70171337008

[1] RUN TO WASTE

Sample: 70171337010

[1] RUN TO WASTE

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PFAS/1,4 DIOXANE 5/3
Pace Project No.: 70171337

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70171337001	**N-08713**	EPA 522	207739	EPA 522	207796
70171337002	**N-14003**	EPA 522	207739	EPA 522	207796
70171337003	**N-05201**	EPA 522	207739	EPA 522	207796
70171337004	**N-03475**	EPA 522	207739	EPA 522	207796
70171337005	**N-11295**	EPA 522	207739	EPA 522	207796
70171337006	**N-11107**	EPA 522	207739	EPA 522	207796
70171337007	**N-07781**	EPA 522	207739	EPA 522	207796
70171337008	**N-08355**	EPA 522	207739	EPA 522	207796
70171337009	**N-13119**	EPA 522	207739	EPA 522	207796
70171337010	**N-13268**	EPA 522	207739	EPA 522	207796
70171337001	**N-08713**	EPA 537.1	726544	EPA 537.1	726933
70171337002	**N-14003**	EPA 537.1	726544	EPA 537.1	726933
70171337003	**N-05201**	EPA 537.1	726544	EPA 537.1	726933
70171337004	**N-03475**	EPA 537.1	726544	EPA 537.1	726933
70171337005	**N-11295**	EPA 537.1	726544	EPA 537.1	726933
70171337006	**N-11107**	EPA 537.1	726544	EPA 537.1	726933
70171337007	**N-07781**	EPA 537.1	726544	EPA 537.1	726933
70171337008	**N-08355**	EPA 537.1	726544	EPA 537.1	726933
70171337009	**N-13119**	EPA 537.1	726544	EPA 537.1	726933
70171337010	**N-13268**	EPA 537.1	726544	EPA 537.1	726933

WO#: 70171337

70171337

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 5/3/21

Collected By: TK

Accepted By: [signature]

Cooler Temp: 12.3 °C 5/3/21 1227

☐ WELL OFF LINE

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water Dist.

Address: 125 Convent Rd
Syosset NY 11791

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location		Origin	Treatment Type	Purpose	Field Readings Cl_2	pH/Temp	Analysis		Lab No.
5-3-21 10:28	PW	well #27 N-08713	Ran to System	RW		RO	Ø		1,4-Dioxane	PFOS/PFOA	
5-3-21 10:48	PW	well #28 N-14003	Ran to System	RW		RO	Ø		1,4 Dioxane	PFOS/PFOA	
5-3-21 11:08	PW	well #11 N-05201	Ran to Waste	RW		RO	Ø		1,4 Dioxane	PFOS/PFOA	
5-3-21 10:03	PW	well #7 N-03475	Ran to Waste	RW		RO	Ø		1,4 Dioxane	PFOA/PFOS	
5-3-21 09:14	PW	well #30 N-11295	Ran to System	RW		RO	Ø		1,4 Dioxane	PFOS/PFOA	
5-3-21 09:27	PW	well #29 N-11107	Ran to System	RW		RO	Ø		1,4 Dioxane	PFOS/PFOA	
5-3-21 08:05	PW	well #22 N-07781	Ran to System	RW		RO	Ø		1,4 Dioxane	PFOS/PFOA	
5-3-21 08:21	PW	well #25 N-08355	Ran to Waste	RW		RO	Ø		1,4-Dioxane	PFOS/PFOA	
5-3-21 08:33	PW	well #26 N-13119	Ran to ~~Waste~~ System	RW		RO	Ø		1,4-Dioxane	PFOS/PFOA	
5-3-21 09:03	PW	well #31 N-13268	Ran to Waste	RW		RO	Ø		1,4-Dioxane	PFOS/PFOA	

Remarks:

Pace Analytical®

Sample Condition Upon Re

WO#: 70171337
PM: JSA **Due Date: 05/13/21**
CLIENT: JWD

Client Name: Jericho

Proj

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

Tracking #:

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Thermometer Used: (TH091) Correction Factor: +0.0

Cooler Temperature(°C): 12.3 Cooler Temperature Corrected(°C): 12.3

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet (Blue) None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: MS 5/3/21

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID, Matrix: SL WT OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked? pH paper Lot #	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐ Yes	☐ No	☑ N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐ Yes	☐ No	☑ N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot #	☐ Yes	☐ No	☑ N/A	15.
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

June 11, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville
- Pace National - Mt. Juliet
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Allen Fok, D & B Engineers
Jim Van Horn, D & B Engineers
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Delaware Certification # NY10478
Delaware Certification # NY10478
Virginia Certification # 460302
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375

Pace Analytical Services, LLC
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(631)694-3040

CERTIFICATIONS

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

Pace Analytical Services National

North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE ANALYTE COUNT

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70173466001	**N-07781**	EPA 552.3	AD1	10	PACE-MV
		EPA 200.7	KM1	11	PACE-MV
		EPA 200.8	KS1	17	PACE-MV
		EPA 200.8	KS1	1	PACE-MV
		EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	18	PASI-O
		EPA 180.1	DJM	1	PACE-MV
		EPA 314.0	MCG	1	PAN
		SM22 2120B	DJM	2	PACE-MV
		SM22 2150B	DJM	1	PACE-MV
		SM22 2320B	MEM1	1	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM22 5540C	DGC	2	PACE-MV
		SM22 2330 LSI	AKS	1	PACE-MV
		EPA 218.7	TM2	1	PASI-O
		EPA 300.0	BNK	4	PACE-MV
		EPA 300.1	NMT	2	PASI-O
		EPA 300.1	NMT	3	PASI-O
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		SM22 5310B	HMH	1	PACE-MV
		ASTM D7237-10	MEM1	1	PACE-MV
70173466002	**N-07781 FB**	EPA 537.1	SWR	18	PASI-O

PACE-MV = Pace Analytical Services - Melville
PAN = Pace National - Mt. Juliet
PASI-O = Pace Analytical Services - Ormond Beach

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

Sample: N-07781 **Lab ID: 70173466001** Collected: 05/18/21 09:30 Received: 05/18/21 15:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Chlorine and pH	Analytical Method: Pace Analytical Services - Melville							
Field pH	**7.86**	Std. Units		1		05/18/21 09:30		N3
552.3 UCMR4 Haloacetic Acids	Analytical Method: EPA 552.3 Preparation Method: EPA 552.3 Pace Analytical Services - Melville							
Bromochloroacetic Acid	**<0.30**	ug/L	0.30	1	05/20/21 16:11	05/22/21 10:05	5589-96-8	
Bromodichloroacetic Acid	**<0.50**	ug/L	0.50	1	05/20/21 16:11	05/22/21 10:05	71133-14-7	N2
Chlorodibromoacetic Acid	**<0.30**	ug/L	0.30	1	05/20/21 16:11	05/22/21 10:05	5278-95-5	N2
Dibromoacetic Acid	**<0.30**	ug/L	0.30	1	05/20/21 16:11	05/22/21 10:05	631-64-1	
Dichloroacetic Acid	**<0.20**	ug/L	0.20	1	05/20/21 16:11	05/22/21 10:05	79-43-6	
Monobromoacetic Acid	**<0.30**	ug/L	0.30	1	05/20/21 16:11	05/22/21 10:05	79-08-3	
Monochloroacetic Acid	**<2.0**	ug/L	2.0	1	05/20/21 16:11	05/22/21 10:05	79-11-8	
Tribromoacetic Acid	**<2.0**	ug/L	2.0	1	05/20/21 16:11	05/22/21 10:05	75-96-7	N2
Trichloroacetic Acid	**<0.50**	ug/L	0.50	1	05/20/21 16:11	05/22/21 10:05	76-03-9	
Surrogates								
2-Bromobutanoic acid (S)	101	%	70-130	1	05/20/21 16:11	05/22/21 10:05	80-58-0	
200.7 MET ICP, Drinking Water	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Calcium	**13.8**	mg/L	0.20	1		05/24/21 18:02	7440-70-2	
Cobalt	**<50.0**	ug/L	50.0	1		05/24/21 18:02	7440-48-4	N3
Ca Hardness as CaCO3 (SM 2340B	**34.5**	mg/L	0.50	1		05/24/21 18:02		
Iron	**<0.020**	mg/L	0.020	1		05/24/21 18:02	7439-89-6	
Magnesium	**6.7**	mg/L	0.20	1		05/24/21 18:02	7439-95-4	
Manganese	**<0.010**	mg/L	0.010	1		05/24/21 18:02	7439-96-5	
Sodium	**20.7**	mg/L	0.20	1		05/24/21 18:02	7440-23-5	
Strontium	**81.5**	ug/L	10.0	1		05/24/21 18:02	7440-24-6	N3
Tot Hardness asCaCO3 (SM 2340B	**61.9**	mg/L	0.83	1		05/24/21 18:02		N3
Vanadium	**<50.0**	ug/L	50.0	1		05/24/21 18:02	7440-62-2	
Zinc	**<0.020**	mg/L	0.020	1		05/24/21 18:02	7440-66-6	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Antimony	**<0.40**	ug/L	0.40	1		06/02/21 10:26	7440-36-0	
Arsenic	**<1.0**	ug/L	1.0	1		06/02/21 10:26	7440-38-2	
Barium	**0.0065**	mg/L	0.0020	1		06/02/21 10:26	7440-39-3	
Beryllium	**<0.30**	ug/L	0.30	1		06/02/21 10:26	7440-41-7	
Cadmium	**<1.0**	ug/L	1.0	1		06/02/21 10:26	7440-43-9	
Chromium	**<0.0070**	mg/L	0.0070	1		06/02/21 10:26	7440-47-3	
Cobalt	**<0.50**	ug/L	0.50	1		06/02/21 10:26	7440-48-4	N3
Copper	**0.0039**	mg/L	0.0020	1		06/02/21 10:26	7440-50-8	
Lead	**<1.0**	ug/L	1.0	1		06/02/21 10:26	7439-92-1	
Mercury	**<0.20**	ug/L	0.20	1		06/02/21 10:26	7439-97-6	
Molybdenum	**<10.0**	ug/L	10.0	1		06/02/21 10:26	7439-98-7	
Nickel	**0.00067**	mg/L	0.00050	1		06/02/21 10:26	7440-02-0	
Selenium	**<2.0**	ug/L	2.0	1		06/02/21 10:26	7782-49-2	

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

Sample: N-07781 **Lab ID: 70173466001** Collected: 05/18/21 09:30 Received: 05/18/21 15:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
	Pace Analytical Services - Melville							
Silver	**<0.0010**	mg/L	0.0010	1		06/02/21 10:26	7440-22-4	
Strontium	**65.7**	ug/L	1.0	1		06/02/21 10:26	7440-24-6	N3
Thallium	**<0.30**	ug/L	0.30	1		06/02/21 10:26	7440-28-0	
Vanadium	**<1.0**	ug/L	1.0	1		06/02/21 10:26	7440-62-2	
200.8 MET ICPMS UCMR	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
	Pace Analytical Services - Melville							
Germanium	**<0.30**	ug/L	0.30	1	06/02/21 08:46	06/03/21 14:42	7440-56-4	N2
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522							
	Pace Analytical Services - Melville							
1,4-Dioxane (p-Dioxane)	**0.59**	ug/L	0.020	1	05/20/21 16:10	05/21/21 06:20	123-91-1	
Surrogates								
1,4-Dioxane-d8 (S)	102	%	70-130	1	05/20/21 16:10	05/21/21 06:20		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1							
	Pace Analytical Services - Ormond Beach							
NEtFOSAA	**<2.0**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	2991-50-6	
NMeFOSAA	**<2.0**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	2355-31-9	
Perfluorobutanesulfonic acid	**<2.0**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	375-73-5	
Perfluorodecanoic acid	**<2.0**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	335-76-2	
Perfluorohexanoic acid	**3.1**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	307-24-4	
Perfluorododecanoic acid	**<2.0**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	307-55-1	L1
Perfluoroheptanoic acid	**2.5**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	1763-23-1	
Perfluorooctanoic acid	**2.2**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	335-67-1	
Perfluorotetradecanoic acid	**<2.0**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	376-06-7	
Perfluorotridecanoic acid	**<2.0**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	72629-94-8	
Perfluoroundecanoic acid	**<2.0**	ng/L	2.0	1	05/21/21 09:31	05/23/21 21:10	2058-94-8	
Surrogates								
13C2-PFDA (S)	116	%	70-130	1	05/21/21 09:31	05/23/21 21:10		
13C2-PFHxA (S)	107	%	70-130	1	05/21/21 09:31	05/23/21 21:10		
NEtFOSAA-d5 (S)	102	%	70-130	1	05/21/21 09:31	05/23/21 21:10		
HFPO-DAS (S)	88	%	70-130	1	05/21/21 09:31	05/23/21 21:10		
180.1 Turbidity	Analytical Method: EPA 180.1							
	Pace Analytical Services - Melville							
Turbidity	**<1.0**	NTU	1.0	1		05/19/21 12:43		
Wet Chemistry 314.0 Mod	Analytical Method: EPA 314.0 Preparation Method: 314.0 Mod							
	Pace National - Mt. Juliet							
Perchlorate	**<4.00**	ug/L	4.00	1	06/06/21 02:28	06/06/21 02:28	14797-73-0	

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

Sample: N-07781 **Lab ID: 70173466001** Collected: 05/18/21 09:30 Received: 05/18/21 15:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2120B W Apparent Color	Analytical Method: SM22 2120B							
	Pace Analytical Services - Melville							
Apparent Color	**<5.0**	units	5.0	1		05/19/21 12:59		
pH	**5.8**	Std. Units	0.10	1		05/19/21 12:59		
2150B Threshold Odor Number	Analytical Method: SM22 2150B							
	Pace Analytical Services - Melville							
Odor @ 60 Degrees C	**No odor observed**		1.0	1		05/18/21 19:56		
2320B Alkalinity	Analytical Method: SM22 2320B							
	Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**17.5**	mg/L	1.0	1		05/27/21 13:23		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
	Pace Analytical Services - Melville							
Total Dissolved Solids	**170**	mg/L	10.0	1		05/25/21 13:37		
5540C MBAS Surfactants	Analytical Method: SM22 5540C Preparation Method: SM22 5540C							
	Pace Analytical Services - Melville							
LAS Molecular Weight, g/mol	**320**			1	05/19/21 18:43	05/19/21 18:47		
MBAS, Calculated as LAS	**<0.080**	mg/L	0.080	1	05/19/21 18:43	05/19/21 18:47		
Langelier Saturation Index	Analytical Method: SM22 2330 LSI							
	Pace Analytical Services - Melville							
Corrosivity	**-1.15**			1		06/02/21 14:56		
Hexavalent Chromium, DW	Analytical Method: EPA 218.7							
	Pace Analytical Services - Ormond Beach							
Chromium, Hexavalent	**0.73**	ug/L	0.12	5		06/03/21 12:06	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Melville							
Bromide	**0.12**	mg/L	0.050	1		05/29/21 03:26	24959-67-9	
Chloride	**35.3**	mg/L	2.0	1		05/29/21 03:26	16887-00-6	
Fluoride	**<0.10**	mg/L	0.10	1		05/29/21 03:26	16984-48-8	
Sulfate	**11.2**	mg/L	5.0	1		05/29/21 03:26	14808-79-8	
300.1 Oxihalide IC Anions 14d	Analytical Method: EPA 300.1							
	Pace Analytical Services - Ormond Beach							
Chlorite	**<10.0**	ug/L	10.0	5		05/25/21 03:02		
Surrogates								
Dichloroacetate (S)	101	%	90-115	5		05/25/21 03:02	79-43-6	
300.1 Oxihalide IC Anions 28d	Analytical Method: EPA 300.1							
	Pace Analytical Services - Ormond Beach							
Bromate	**<5.0**	ug/L	5.0	5		05/25/21 03:02	15541-45-4	

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

Sample: N-07781 **Lab ID: 70173466001** Collected: 05/18/21 09:30 Received: 05/18/21 15:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.1 Oxihalide IC Anions 28d	Analytical Method: EPA 300.1 Pace Analytical Services - Ormond Beach							
Chlorate	**26.0**	ug/L	10.0	5		05/25/21 03:02	7790-93-4	
Surrogates								
Dichloroacetate (S)	101	%	90-115	5		05/25/21 03:02	79-43-6	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	**4.2**	mg/L	0.25	5		05/18/21 22:58	14797-55-8	
Nitrate-Nitrite (as N)	**4.2**	mg/L	0.25	5		05/18/21 22:58	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/18/21 21:50	14797-65-0	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**<0.10**	mg/L	0.10	1		05/28/21 13:09	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B Pace Analytical Services - Melville							
Total Organic Carbon	**<1000**	ug/L	1000	1		06/03/21 18:13	7440-44-0	
Cyanide, Free	Analytical Method: ASTM D7237-10 Pace Analytical Services - Melville							
Cyanide, Free	**<10.0**	ug/L	10.0	1		05/26/21 17:23	57-12-5	

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ANALYTICAL RESULTS

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

Sample: N-07781 FB **Lab ID: 70173466002** Collected: 05/18/21 00:00 Received: 05/18/21 15:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1							
	Pace Analytical Services - Ormond Beach							
NEtFOSAA	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	2991-50-6	
NMeFOSAA	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	2355-31-9	
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	375-73-5	
Perfluorodecanoic acid	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	335-76-2	
Perfluorohexanoic acid	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	307-24-4	
Perfluorododecanoic acid	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	307-55-1	L1
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	335-67-1	
Perfluorotetradecanoic acid	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	376-06-7	
Perfluorotridecanoic acid	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	72629-94-8	
Perfluoroundecanoic acid	**<1.9**	ng/L	1.9	1	05/21/21 09:31	05/23/21 20:51	2058-94-8	
Surrogates								
13C2-PFDA (S)	133	%	70-130	1	05/21/21 09:31	05/23/21 20:51		S3
13C2-PFHxA (S)	128	%	70-130	1	05/21/21 09:31	05/23/21 20:51		
NEtFOSAA-d5 (S)	103	%	70-130	1	05/21/21 09:31	05/23/21 20:51		
HFPO-DAS (S)	111	%	70-130	1	05/21/21 09:31	05/23/21 20:51		

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 210146
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET No Prep Drinking Water
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1050224
Matrix: Drinking Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ca Hardness as CaCO3 (SM 2340B	mg/L	<0.50	0.50	05/24/21 17:12	
Calcium	mg/L	<0.20	0.20	05/24/21 17:12	
Cobalt	ug/L	<50.0	50.0	05/24/21 17:12	N3
Iron	mg/L	<0.020	0.020	05/24/21 17:12	
Magnesium	mg/L	<0.20	0.20	05/24/21 17:12	
Manganese	mg/L	<0.010	0.010	05/24/21 17:12	
Sodium	mg/L	<0.20	0.20	05/24/21 17:12	
Strontium	ug/L	<10.0	10.0	05/24/21 17:12	N3
Tot Hardness asCaCO3 (SM 2340B	mg/L	<0.83	0.83	05/24/21 17:12	N3
Vanadium	ug/L	<50.0	50.0	05/24/21 17:12	
Zinc	mg/L	<0.020	0.020	05/24/21 17:12	

LABORATORY CONTROL SAMPLE: 1050225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO3 (SM 2340B	mg/L		61.7			
Calcium	mg/L	25	24.7	99	85-115	
Cobalt	ug/L	500	496	99	85-115	N3
Iron	mg/L	2	2.0	100	85-115	
Magnesium	mg/L	25	24.2	97	85-115	
Manganese	mg/L	0.25	0.24	98	85-115	
Sodium	mg/L	50	49.7	99	85-115	
Strontium	ug/L	500	493	99	85-115	N3
Tot Hardness asCaCO3 (SM 2340B	mg/L		161			N3
Vanadium	ug/L	500	495	99	85-115	
Zinc	mg/L	1	1.0	101	85-115	

MATRIX SPIKE SAMPLE: 1050227

Parameter	Units	70173706001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO3 (SM 2340B	mg/L	139000 ug/L		218			
Calcium	mg/L	55700 ug/L	25	87.5	127	70-130	
Cobalt	ug/L	<50.0	500	648	130	70-130	N3
Iron	mg/L	<20.0 ug/L	2	2.6	131	70-130	M1
Magnesium	mg/L	9830 ug/L	25	41.5	127	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

MATRIX SPIKE SAMPLE: 1050227

Parameter	Units	70173706001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Manganese	mg/L	<10.0 ug/L	0.25	0.32	129	70-130	
Sodium	mg/L	124000 ug/L	50	186	124	70-130	
Strontium	ug/L	183	500	826	129	70-130	N3
Tot Hardness asCaCO3 (SM 2340B	mg/L	180000 ug/L		389			N3
Vanadium	ug/L	<50.0	500	641	128	70-130	
Zinc	mg/L	300 ug/L	1	1.6	131	70-130	M1

MATRIX SPIKE SAMPLE: 1050229

Parameter	Units	70173706002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO3 (SM 2340B	mg/L	138000 ug/L		217			
Calcium	mg/L	55400 ug/L	25	86.9	126	70-130	
Cobalt	ug/L	<50.0	500	635	127	70-130	N3
Iron	mg/L	<20.0 ug/L	2	2.6	127	70-130	
Magnesium	mg/L	9740 ug/L	25	40.7	124	70-130	
Manganese	mg/L	<10.0 ug/L	0.25	0.31	125	70-130	
Sodium	mg/L	123000 ug/L	50	185	124	70-130	
Strontium	ug/L	182	500	806	125	70-130	N3
Tot Hardness asCaCO3 (SM 2340B	mg/L	178000 ug/L		385			N3
Vanadium	ug/L	<50.0	500	628	125	70-130	
Zinc	mg/L	375 ug/L	1	1.6	126	70-130	

SAMPLE DUPLICATE: 1050226

Parameter	Units	70173706001 Result	Dup Result	RPD	Qualifiers
Ca Hardness as CaCO3 (SM 2340B	mg/L	139000 ug/L	139	0	
Calcium	mg/L	55700 ug/L	55.7	0	
Cobalt	ug/L	<50.0	<50.0		N3
Iron	mg/L	<20.0 ug/L	<0.020		
Magnesium	mg/L	9830 ug/L	10.0	2	
Manganese	mg/L	<10.0 ug/L	<0.010		
Sodium	mg/L	124000 ug/L	123	1	
Strontium	ug/L	183	186	2	N3
Tot Hardness asCaCO3 (SM 2340B	mg/L	180000 ug/L	180	0	N3
Vanadium	ug/L	<50.0	<50.0		
Zinc	mg/L	300 ug/L	0.31	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

SAMPLE DUPLICATE: 1050228

Parameter	Units	70173706002 Result	Dup Result	RPD	Qualifiers
Ca Hardness as CaCO3 (SM 2340B	mg/L	138000 ug/L	138	1	
Calcium	mg/L	55400 ug/L	55.1	1	
Cobalt	ug/L	<50.0	<50.0		N3
Iron	mg/L	<20.0 ug/L	<0.020		
Magnesium	mg/L	9740 ug/L	10.2	5	
Manganese	mg/L	<10.0 ug/L	<0.010		
Sodium	mg/L	123000 ug/L	123	0	
Strontium	ug/L	182	191	5	N3
Tot Hardness asCaCO3 (SM 2340B	mg/L	178000 ug/L	180	1	N3
Vanadium	ug/L	<50.0	<50.0		
Zinc	mg/L	375 ug/L	0.39	4	

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 211264
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET No Prep Drinking Water
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70173466001

METHOD BLANK: 1058135
Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.40	0.40	06/02/21 09:41	
Arsenic	ug/L	<1.0	1.0	06/02/21 09:41	
Barium	mg/L	<0.0020	0.0020	06/02/21 09:41	
Beryllium	ug/L	<0.30	0.30	06/02/21 09:41	
Cadmium	ug/L	<1.0	1.0	06/02/21 09:41	
Chromium	mg/L	<0.0070	0.0070	06/02/21 09:41	
Cobalt	ug/L	<0.50	0.50	06/02/21 09:41	N3
Copper	mg/L	<0.0020	0.0020	06/02/21 09:41	
Lead	ug/L	<1.0	1.0	06/02/21 09:41	
Mercury	ug/L	<0.20	0.20	06/02/21 09:41	
Molybdenum	ug/L	<10.0	10.0	06/02/21 09:41	
Nickel	mg/L	<0.00050	0.00050	06/02/21 09:41	
Selenium	ug/L	<2.0	2.0	06/02/21 09:41	
Silver	mg/L	<0.0010	0.0010	06/02/21 09:41	
Strontium	ug/L	<1.0	1.0	06/02/21 09:41	N3
Thallium	ug/L	<0.30	0.30	06/02/21 09:41	
Vanadium	ug/L	<1.0	1.0	06/02/21 09:41	

LABORATORY CONTROL SAMPLE: 1058136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	45.6	91	85-115	
Arsenic	ug/L	50	49.6	99	85-115	
Barium	mg/L	0.05	0.049	99	85-115	
Beryllium	ug/L	50	51.0	102	85-115	
Cadmium	ug/L	50	48.9	98	85-115	
Chromium	mg/L	0.05	0.050	99	85-115	
Cobalt	ug/L	50	49.8	100	85-115	N3
Copper	mg/L	0.05	0.048	96	85-115	
Lead	ug/L	50	50.0	100	85-115	
Mercury	ug/L	1	0.93	93	85-115	
Molybdenum	ug/L	50	47.7	95	85-115	
Nickel	mg/L	0.05	0.049	98	85-115	
Selenium	ug/L	50	50.2	100	85-115	
Silver	mg/L	0.025	0.025	99	85-115	
Strontium	ug/L	50	50.7	101	85-115	N3
Thallium	ug/L	25	25.4	102	85-115	
Vanadium	ug/L	50	50.7	101	85-115	

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

MATRIX SPIKE SAMPLE: 1058138

Parameter	Units	30421143001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	50	53.2	106	70-130	
Arsenic	ug/L	ND	50	57.7	115	70-130	
Barium	mg/L	0.035	0.05	0.091	111	70-130	
Beryllium	ug/L	ND	50	58.6	117	70-130	
Cadmium	ug/L	ND	50	56.3	113	70-130	
Chromium	mg/L	ND	0.05	0.059	118	70-130	
Cobalt	ug/L	ND	50	56.6	113	70-130	N3
Copper	mg/L	0.0057	0.05	0.063	114	70-130	
Lead	ug/L	ND	50	61.1	121	70-130	
Mercury	ug/L	ND	0.04	<0.20	98	70-130	
Molybdenum	ug/L	ND	50	53.9	108	70-130	
Nickel	mg/L	0.00079	0.05	0.057	111	70-130	
Selenium	ug/L	ND	50	58.0	116	70-130	
Silver	mg/L	ND	0.025	0.0031	12	70-130	M1
Strontium	ug/L	0.037 mg/L	50	91.2	109	70-130	N3
Thallium	ug/L	ND	25	30.0	120	70-130	
Vanadium	ug/L	ND	50	61.0	122	70-130	

MATRIX SPIKE SAMPLE: 1058140

Parameter	Units	70174239005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	1.3	50	53.9	105	70-130	
Arsenic	ug/L	<1.0	50	56.8	113	70-130	
Barium	mg/L	5.4 ug/L	0.05	0.060	110	70-130	
Beryllium	ug/L	<0.30	50	58.4	117	70-130	
Cadmium	ug/L	<1.0	50	56.1	112	70-130	
Chromium	mg/L	<7.0 ug/L	0.05	0.058	116	70-130	
Cobalt	ug/L	<0.50	50	57.0	114	70-130	N3
Copper	mg/L	2.1 ug/L	0.05	0.058	111	70-130	
Lead	ug/L	<1.0	50	59.9	120	70-130	
Mercury	ug/L	<0.20	0.04	<0.20	110	70-130	
Molybdenum	ug/L	<10.0	50	54.0	108	70-130	
Nickel	mg/L	2.0 ug/L	0.05	0.056	109	70-130	
Selenium	ug/L	<2.0	50	57.6	115	70-130	
Silver	mg/L	<1.0 ug/L	0.025	0.0030	12	70-130	M1
Strontium	ug/L	37.3	50	92.6	111	70-130	N3
Thallium	ug/L	<0.30	25	29.6	119	70-130	
Vanadium	ug/L	<1.0	50	59.2	118	70-130	

SAMPLE DUPLICATE: 1058137

Parameter	Units	30421143001 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	<0.40		
Arsenic	ug/L	ND	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

SAMPLE DUPLICATE: 1058137

Parameter	Units	30421143001 Result	Dup Result	RPD	Qualifiers
Barium	mg/L	0.035	0.035	1	
Beryllium	ug/L	ND	<0.30		
Cadmium	ug/L	ND	<1.0		
Chromium	mg/L	ND	<0.0070		
Cobalt	ug/L	ND	<0.50		N3
Copper	mg/L	0.0057	0.0056	2	
Lead	ug/L	ND	<1.0		
Mercury	ug/L	ND	<0.20		
Molybdenum	ug/L	ND	<10.0		
Nickel	mg/L	0.00079	0.00074	7	
Selenium	ug/L	ND	<2.0		
Silver	mg/L	ND	<0.0010		
Strontium	ug/L	0.037 mg/L	36.7	0	N3
Thallium	ug/L	ND	<0.30		
Vanadium	ug/L	ND	<1.0		

SAMPLE DUPLICATE: 1058139

Parameter	Units	70174239005 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	1.3	1.3	2	
Arsenic	ug/L	<1.0	<1.0		
Barium	mg/L	5.4 ug/L	0.0053	2	
Beryllium	ug/L	<0.30	<0.30		
Cadmium	ug/L	<1.0	<1.0		
Chromium	mg/L	<7.0 ug/L	<0.0070		
Cobalt	ug/L	<0.50	<0.50		N3
Copper	mg/L	2.1 ug/L	0.0021	1	
Lead	ug/L	<1.0	<1.0		
Mercury	ug/L	<0.20	<0.20		
Molybdenum	ug/L	<10.0	<10.0		
Nickel	mg/L	2.0 ug/L	0.0020	2	
Selenium	ug/L	<2.0	<2.0		
Silver	mg/L	<1.0 ug/L	<0.0010		
Strontium	ug/L	37.3	37.0	1	N3
Thallium	ug/L	<0.30	<0.30		
Vanadium	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 211780
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET UCMR Drinking Water
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1060858
Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Germanium	ug/L	<0.30	0.30	06/03/21 14:41	N2

LABORATORY CONTROL SAMPLE: 1060859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Germanium	ug/L	0.3	0.30	100	50-150	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1060860 1060861

Parameter	Units	70173466001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Germanium	ug/L	<0.30	5	5	5.3	5.2	105	104	50-150	1	N2

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 209811
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1047423
Matrix: Drinking Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	05/21/21 02:01	
1,4-Dioxane-d8 (S)	%	100	70-130	05/21/21 02:01	

LABORATORY CONTROL SAMPLE: 1047424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	<0.020	81	70-130	
1,4-Dioxane-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1047425

Parameter	Units	70173380002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.02	0.024	75	70-130	
1,4-Dioxane-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1047426

Parameter	Units	70173381002 Result	Dup Result	RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		
1,4-Dioxane-d8 (S)	%	104	102		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 731331
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70173466001, 70173466002

METHOD BLANK: 3988279
Matrix: Water
Associated Lab Samples: 70173466001, 70173466002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
NEtFOSAA	ng/L	ND	2.0	05/23/21 18:37	
NMeFOSAA	ng/L	ND	2.0	05/23/21 18:37	
Perfluorobutanesulfonic acid	ng/L	ND	2.0	05/23/21 18:37	
Perfluorodecanoic acid	ng/L	ND	2.0	05/23/21 18:37	
Perfluorododecanoic acid	ng/L	ND	2.0	05/23/21 18:37	
Perfluoroheptanoic acid	ng/L	ND	2.0	05/23/21 18:37	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	05/23/21 18:37	
Perfluorohexanoic acid	ng/L	ND	2.0	05/23/21 18:37	
Perfluorononanoic acid	ng/L	ND	2.0	05/23/21 18:37	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	05/23/21 18:37	
Perfluorooctanoic acid	ng/L	ND	2.0	05/23/21 18:37	
Perfluorotetradecanoic acid	ng/L	ND	2.0	05/23/21 18:37	
Perfluorotridecanoic acid	ng/L	ND	2.0	05/23/21 18:37	
Perfluoroundecanoic acid	ng/L	ND	2.0	05/23/21 18:37	
13C2-PFDA (S)	%	98	70-130	05/23/21 18:37	
13C2-PFHxA (S)	%	93	70-130	05/23/21 18:37	
HFPO-DAS (S)	%	85	70-130	05/23/21 18:37	
NEtFOSAA-d5 (S)	%	96	70-130	05/23/21 18:37	

LABORATORY CONTROL SAMPLE: 3988280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA	ng/L	160	174	109	70-130	
NMeFOSAA	ng/L	160	172	108	70-130	
Perfluorobutanesulfonic acid	ng/L	142	165	116	70-130	
Perfluorodecanoic acid	ng/L	160	196	123	70-130	
Perfluorododecanoic acid	ng/L	160	216	135	70-130	L1
Perfluoroheptanoic acid	ng/L	160	191	119	70-130	
Perfluorohexanesulfonic acid	ng/L	146	170	117	70-130	
Perfluorohexanoic acid	ng/L	160	186	116	70-130	
Perfluorononanoic acid	ng/L	160	198	124	70-130	
Perfluorooctanesulfonic acid	ng/L	148	173	117	70-130	
Perfluorooctanoic acid	ng/L	160	173	108	70-130	
Perfluorotetradecanoic acid	ng/L	160	206	129	70-130	
Perfluorotridecanoic acid	ng/L	160	208	130	70-130	
Perfluoroundecanoic acid	ng/L	160	197	123	70-130	
13C2-PFDA (S)	%			107	70-130	
13C2-PFHxA (S)	%			105	70-130	
HFPO-DAS (S)	%			101	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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(631)694-3040

QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

LABORATORY CONTROL SAMPLE: 3988280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			89	70-130	

LABORATORY CONTROL SAMPLE: 3988281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA	ng/L	2	1.8J	90	50-150	
NMeFOSAA	ng/L	2	1.9J	96	50-150	
Perfluorobutanesulfonic acid	ng/L	1.8	1.8J	99	50-150	
Perfluorodecanoic acid	ng/L	2	2.4	118	50-150	
Perfluorododecanoic acid	ng/L	2	2.6	132	50-150	
Perfluoroheptanoic acid	ng/L	2	2.6	130	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.9J	105	50-150	
Perfluorohexanoic acid	ng/L	2	2.5	124	50-150	
Perfluorononanoic acid	ng/L	2	2.3	116	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	ND	106	50-150	
Perfluorooctanoic acid	ng/L	2	2.2	110	50-150	
Perfluorotetradecanoic acid	ng/L	2	2.5	126	50-150	
Perfluorotridecanoic acid	ng/L	2	2.6	132	50-150	
Perfluoroundecanoic acid	ng/L	2	2.4	120	50-150	
13C2-PFDA (S)	%			109	70-130	
13C2-PFHxA (S)	%			105	70-130	
HFPO-DAS (S)	%			98	70-130	
NEtFOSAA-d5 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 3988282

Parameter	Units	70173423001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
NEtFOSAA	ng/L	<1.9	1.8	<1.8	96	70-130	
NMeFOSAA	ng/L	<1.9	1.8	<1.8	100	70-130	
Perfluorobutanesulfonic acid	ng/L	<1.9	1.6	1.9	97	70-130	
Perfluorodecanoic acid	ng/L	<1.9	1.8	2.2	122	70-130	
Perfluorododecanoic acid	ng/L	<1.9	1.8	2.5	136	70-130	M1
Perfluoroheptanoic acid	ng/L	<1.9	1.8	3.1	125	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.9	1.7	2.5	111	70-130	
Perfluorohexanoic acid	ng/L	<1.9	1.8	2.5	107	70-130	
Perfluorononanoic acid	ng/L	<1.9	1.8	2.2	120	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.9	1.7	<1.8	91	70-130	
Perfluorooctanoic acid	ng/L	<1.9	1.8	3.0	102	70-130	
Perfluorotetradecanoic acid	ng/L	<1.9	1.8	2.2	122	70-130	
Perfluorotridecanoic acid	ng/L	<1.9	1.8	2.3	126	70-130	
Perfluoroundecanoic acid	ng/L	<1.9	1.8	2.2	120	70-130	
13C2-PFDA (S)	%				110	70-130	
13C2-PFHxA (S)	%				108	70-130	
HFPO-DAS (S)	%				90	70-130	

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

MATRIX SPIKE SAMPLE: 3988282

Parameter	Units	70173423001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%				103	70-130	

SAMPLE DUPLICATE: 3988283

Parameter	Units	70173381001 Result	Dup Result	RPD	Qualifiers
NEtFOSAA	ng/L	<1.8	<1.8		
NMeFOSAA	ng/L	<1.8	<1.8		
Perfluorobutanesulfonic acid	ng/L	<1.8	<1.8		
Perfluorodecanoic acid	ng/L	<1.8	<1.8		
Perfluorododecanoic acid	ng/L	<1.8	<1.8		
Perfluoroheptanoic acid	ng/L	<1.8	<1.8		
Perfluorohexanesulfonic acid	ng/L	<1.8	<1.8		
Perfluorohexanoic acid	ng/L	<1.8	<1.8		
Perfluorononanoic acid	ng/L	<1.8	<1.8		
Perfluorooctanesulfonic acid	ng/L	<1.8	<1.8		
Perfluorooctanoic acid	ng/L	<1.8	<1.8		
Perfluorotetradecanoic acid	ng/L	<1.8	<1.8		
Perfluorotridecanoic acid	ng/L	<1.8	<1.8		
Perfluoroundecanoic acid	ng/L	<1.8	<1.8		
13C2-PFDA (S)	%	108	108		
13C2-PFHxA (S)	%	115	108		
HFPO-DAS (S)	%	99	89		
NEtFOSAA-d5 (S)	%	94	93		

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 209711
QC Batch Method: EPA 552.3
Analysis Method: EPA 552.3
Analysis Description: 5523 UCMR Haloacetic Acids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1046849 Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromochloroacetic Acid	ug/L	ND	0.30	05/22/21 02:32	
Bromodichloroacetic Acid	ug/L	ND	0.50	05/22/21 02:32	N2
Chlorodibromoacetic Acid	ug/L	ND	0.30	05/22/21 02:32	N2
Dibromoacetic Acid	ug/L	ND	0.30	05/22/21 02:32	
Dichloroacetic Acid	ug/L	ND	0.67	05/22/21 02:32	
Monobromoacetic Acid	ug/L	ND	0.30	05/22/21 02:32	
Monochloroacetic Acid	ug/L	ND	2.0	05/22/21 02:32	
Tribromoacetic Acid	ug/L	ND	2.0	05/22/21 02:32	N2
Trichloroacetic Acid	ug/L	ND	0.50	05/22/21 02:32	
2-Bromobutanoic acid (S)	%	89	70-130	05/22/21 02:32	

LABORATORY CONTROL SAMPLE: 1046850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromochloroacetic Acid	ug/L	10	9.2	92	70-130	
Bromodichloroacetic Acid	ug/L	10	10.4	104	70-130	N2
Chlorodibromoacetic Acid	ug/L	10	10.1	101	70-130	N2
Dibromoacetic Acid	ug/L	10	10.2	102	70-130	
Dichloroacetic Acid	ug/L	10	9.0	90	70-130	
Monobromoacetic Acid	ug/L	10	8.4	84	70-130	
Monochloroacetic Acid	ug/L	10	8.7	87	70-130	
Tribromoacetic Acid	ug/L	10	10.5	105	70-130	N2
Trichloroacetic Acid	ug/L	10	9.6	96	70-130	
2-Bromobutanoic acid (S)	%			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1046851 1046852

Parameter	Units	70172669001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Bromochloroacetic Acid	ug/L	<0.30	0.2	0.2	<0.30	<0.30	109	93	40-140		
Bromodichloroacetic Acid	ug/L	<0.50	0.2	0.2	<0.50	<0.50	101	110	40-140		N2
Chlorodibromoacetic Acid	ug/L	<0.30	0.2	0.2	<0.30	<0.30	101	138	40-140		N2
Dibromoacetic Acid	ug/L	<0.30	0.2	0.2	<0.30	<0.30	106	84	40-140		
Dichloroacetic Acid	ug/L	<0.20	0.2	0.2	0.40	0.35	198	173	40-140	14	M1
Monobromoacetic Acid	ug/L	<0.30	0.2	0.2	0.51	0.49	116	105	40-140	4	
Monochloroacetic Acid	ug/L	<2.0	0.2	0.2	<2.0	<2.0	199	298	40-140		M1
Tribromoacetic Acid	ug/L	<2.0	0.2	0.2	<2.0	<2.0	72	97	40-140		N2

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1046851 1046852

Parameter	Units	70172669001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Trichloroacetic Acid	ug/L	<0.50	0.2	0.2	<0.50	<0.50	145	144	40-140		M1
2-Bromobutanoic acid (S)	%						97	94	70-130		

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 209513
QC Batch Method: EPA 180.1
Analysis Method: EPA 180.1
Analysis Description: 180.1 Turbidity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1045752
Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	05/19/21 12:38	

LABORATORY CONTROL SAMPLE: 1045753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	10	9.9	99	90-110	

SAMPLE DUPLICATE: 1045754

Parameter	Units	70173482001 Result	Dup Result	RPD	Qualifiers
Turbidity	NTU	1.2	1.2	0	

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 1676682
QC Batch Method: 314.0 Mod
Analysis Method: EPA 314.0
Analysis Description: Wet Chemistry 314.0 Mod
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 70173466001

METHOD BLANK: R3664479-1
Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perchlorate	ug/L	<4.00	4.00	06/05/21 10:53	

LABORATORY CONTROL SAMPLE: R3664479-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perchlorate	ug/L	10.0	9.56	95.6	90.0-110	

SAMPLE DUPLICATE: R3664479-3

Parameter	Units	L1355763-01 Result	Dup Result	RPD	Qualifiers
Perchlorate	ug/L	ND	<4.00	0.00	

SAMPLE DUPLICATE: R3664479-4

Parameter	Units	L1356280-03 Result	Dup Result	RPD	Qualifiers
Perchlorate	ug/L	ND	<4.00	0.00	

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 209514
QC Batch Method: SM22 2120B
Analysis Method: SM22 2120B
Analysis Description: 2120B Color
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1045757
Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Apparent Color	units	<5.0	5.0	05/19/21 12:59	

LABORATORY CONTROL SAMPLE: 1045758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Apparent Color	units	40	40.0	100	90-110	

SAMPLE DUPLICATE: 1045759

Parameter	Units	70173461001 Result	Dup Result	RPD	Qualifiers
Apparent Color	units	<5.0	<5.0		
pH	Std. Units	5.5	5.5	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 209367
QC Batch Method: SM22 2150B
Analysis Method: SM22 2150B
Analysis Description: 2150B Threshold Odor Number
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1045141
Matrix: Drinking Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Odor @ 60 Degrees C		No odor	1.0	05/18/21 19:56	

SAMPLE DUPLICATE: 1045142

Parameter	Units	70173483001 Result	Dup Result	RPD	Qualifiers
Odor @ 60 Degrees C		No odor observed	No odor		

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 210813
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1055069
Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	05/27/21 11:40	

LABORATORY CONTROL SAMPLE: 1055070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.2	101	85-115	

MATRIX SPIKE SAMPLE: 1055074

Parameter	Units	70173282001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	7.8	50	58.7	102	75-125	

SAMPLE DUPLICATE: 1055073

Parameter	Units	70173282001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	7.8	7.6	2	

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 210386
QC Batch Method: SM22 2540C
Analysis Method: SM22 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1051670 Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/25/21 13:35	

LABORATORY CONTROL SAMPLE: 1051671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	548	110	85-115	

MATRIX SPIKE SAMPLE: 1051673

Parameter	Units	70173395006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	414	600	988	96	75-125	

MATRIX SPIKE SAMPLE: 1051675

Parameter	Units	70173395008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	528	600	1120	99	75-125	

SAMPLE DUPLICATE: 1051672

Parameter	Units	70173395006 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	414	416	0	

SAMPLE DUPLICATE: 1051674

Parameter	Units	70173395008 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	528	528	0	

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 209564
QC Batch Method: SM22 5540C
Analysis Method: SM22 5540C
Analysis Description: 5540C MBAS Surfactants
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1046057 Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
LAS Molecular Weight, g/mol		320		05/19/21 18:46	
MBAS, Calculated as LAS	mg/L	ND	0.080	05/19/21 18:46	

LABORATORY CONTROL SAMPLE: 1046058

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
LAS Molecular Weight, g/mol			320			
MBAS, Calculated as LAS	mg/L	0.24	0.23	97	85-115	

MATRIX SPIKE SAMPLE: 1046059

Parameter	Units	70173482001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
LAS Molecular Weight, g/mol				320			
MBAS, Calculated as LAS	mg/L	<0.080	0.24	0.23	86	75-125	

SAMPLE DUPLICATE: 1046060

Parameter	Units	70173482001 Result	Dup Result	RPD	Qualifiers
LAS Molecular Weight, g/mol		320	320		
MBAS, Calculated as LAS	mg/L	<0.080	<0.080		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 734757
QC Batch Method: EPA 218.7
Analysis Method: EPA 218.7
Analysis Description: Chromium, Hexavalent IC, DW
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70173466001

METHOD BLANK: 4007626
Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	ug/L	<0.025	0.025	06/03/21 11:31	

LABORATORY CONTROL SAMPLE: 4007627

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	ug/L	0.075	0.073	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4007628 4007629

Parameter	Units	70173466001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium, Hexavalent	ug/L	0.73	0.38	0.38	1.0	1.1	86	88	85-115	0	H1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4007630 4007631

Parameter	Units	70173411002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium, Hexavalent	ug/L	0.81	0.12	0.12	0.94	0.93	102	94	85-115	1	H1

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 211158
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1057054
Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	0.050	05/29/21 01:11	
Chloride	mg/L	<2.0	2.0	05/29/21 01:11	
Fluoride	mg/L	<0.10	0.10	05/29/21 01:11	
Sulfate	mg/L	<5.0	5.0	05/29/21 01:11	

LABORATORY CONTROL SAMPLE: 1057055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	1.1	106	90-110	
Chloride	mg/L	10	10.6	106	90-110	
Fluoride	mg/L	1	1.1	109	90-110	
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE SAMPLE: 1057060

Parameter	Units	70173810002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	1.1	106	90-110	
Chloride	mg/L	21.2	10	30.9	97	90-110	
Fluoride	mg/L	<0.10	1	0.95	94	90-110	
Sulfate	mg/L	16.6	10	26.2	96	90-110	

MATRIX SPIKE SAMPLE: 1057062

Parameter	Units	70174897001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	0.10	1	1.1	103	90-110	
Chloride	mg/L	25.2	10	34.1	90	90-110	
Fluoride	mg/L	<0.10	1	0.90	88	90-110	M1
Sulfate	mg/L	7.8	10	17.4	96	90-110	

SAMPLE DUPLICATE: 1057061

Parameter	Units	70173810002 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	.046J		
Chloride	mg/L	21.2	21.2	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

SAMPLE DUPLICATE: 1057061

Parameter	Units	70173810002 Result	Dup Result	RPD	Qualifiers
Fluoride	mg/L	<0.10	<0.10		
Sulfate	mg/L	16.6	16.4	1	

SAMPLE DUPLICATE: 1057063

Parameter	Units	70174897001 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	0.10	0.10		
Chloride	mg/L	25.2	24.8	1	
Fluoride	mg/L	<0.10	<0.10		
Sulfate	mg/L	7.8	7.7	1	

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 732246
QC Batch Method: EPA 300.1
Analysis Method: EPA 300.1
Analysis Description: 300.1 Oxihalides IC Anions
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70173466001

METHOD BLANK: 3992513 Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlorite	ug/L	<2.0	2.0	05/25/21 01:37	
Dichloroacetate (S)	%	102	90-115	05/25/21 01:37	

LABORATORY CONTROL SAMPLE: 3992514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorite	ug/L	40	39.6	99	85-115	
Dichloroacetate (S)	%			103	90-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3992515 3992516

Parameter	Units	70173466001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chlorite	ug/L	<10.0	200	200	187	189	93	94	75-125	1	
Dichloroacetate (S)	%						99	101	90-115		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 732247
QC Batch Method: EPA 300.1
Analysis Method: EPA 300.1
Analysis Description: 300.1 Oxihalides IC Anions
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70173466001

METHOD BLANK: 3992524
Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromate	ug/L	<1.0	1.0	05/25/21 01:37	
Chlorate	ug/L	<2.0	2.0	05/25/21 01:37	
Dichloroacetate (S)	%	102	90-115	05/25/21 01:37	

LABORATORY CONTROL SAMPLE: 3992525

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromate	ug/L	8	7.9	99	85-115	
Chlorate	ug/L	40	39.2	98	85-115	
Dichloroacetate (S)	%			103	90-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3992526 3992527

Parameter	Units	70173466001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Bromate	ug/L	<5.0	40	40	37.8	38.3	95	96	75-125	1	
Chlorate	ug/L	26.0	200	200	211	213	92	93	75-125	1	
Dichloroacetate (S)	%						99	101	90-115		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 209370
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1045192
Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.050	05/18/21 21:44	

LABORATORY CONTROL SAMPLE: 1045193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	0.98	98	90-110	

MATRIX SPIKE SAMPLE: 1045194

Parameter	Units	70173466001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.48	96	90-110	

SAMPLE DUPLICATE: 1045195

Parameter	Units	70173466001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 209376
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1045209
Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.050	05/18/21 22:54	

LABORATORY CONTROL SAMPLE: 1045210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 1045211

Parameter	Units	70173466001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.2	2.5	6.8	105	90-110	

SAMPLE DUPLICATE: 1045212

Parameter	Units	70173466001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.2	4.1	2	

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Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 211074
QC Batch Method: SM22 4500 NH3 H
Analysis Method: SM22 4500 NH3 H
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1056497
Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/28/21 12:53	

LABORATORY CONTROL SAMPLE: 1056498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.93	93	90-110	

MATRIX SPIKE SAMPLE: 1056499

Parameter	Units	70173609002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	0.94	90	75-125	

SAMPLE DUPLICATE: 1056500

Parameter	Units	70173609002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 211369
QC Batch Method: SM22 5310B
Analysis Method: SM22 5310B
Analysis Description: 5310B TOC
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1058647
Matrix: Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	ug/L	ND	1000	06/03/21 17:26	

LABORATORY CONTROL SAMPLE: 1058648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	10000	10100	101	85-115	

MATRIX SPIKE SAMPLE: 1060565

Parameter	Units	70173466001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	<1000	10000	10300	99	75-125	

SAMPLE DUPLICATE: 1058649

Parameter	Units	70173911001 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	ug/L	<1.0 mg/L	<1000		

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QUALITY CONTROL DATA

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

QC Batch: 210720
QC Batch Method: ASTM D7237-10
Analysis Method: ASTM D7237-10
Analysis Description: Cyanide, Free
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173466001

METHOD BLANK: 1054022
Matrix: Drinking Water
Associated Lab Samples: 70173466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Free	ug/L	<10.0	10.0	05/26/21 16:38	

LABORATORY CONTROL SAMPLE: 1054023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Free	ug/L	100	102	102	85-114	

MATRIX SPIKE SAMPLE: 1054024

Parameter	Units	70173491001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide, Free	ug/L	<10.0	50	<10.0	0	79-121	M1

SAMPLE DUPLICATE: 1054025

Parameter	Units	70173491001 Result	Dup Result	RPD	Qualifiers
Cyanide, Free	ug/L	<10.0	<10.0		

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QUALIFIERS

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 70173466

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

SAMPLE QUALIFIERS

Sample: 70173466001

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WELL 22 - AOP 5/18
Pace Project No.: 70173466

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70173466001	**N-07781**		209500		
70173466001	**N-07781**	EPA 552.3	209711	EPA 552.3	209887
70173466001	**N-07781**	EPA 200.7	210146		
70173466001	**N-07781**	EPA 200.8	211264		
70173466001	**N-07781**	EPA 200.8	211780	EPA 200.8	211783
70173466001	**N-07781**	EPA 522	209811	EPA 522	209914
70173466001	**N-07781**	EPA 537.1	731331	EPA 537.1	731849
70173466002	**N-07781 FB**	EPA 537.1	731331	EPA 537.1	731849
70173466001	**N-07781**	EPA 180.1	209513		
70173466001	**N-07781**	314.0 Mod	1676682	EPA 314.0	1676682
70173466001	**N-07781**	SM22 2120B	209514		
70173466001	**N-07781**	SM22 2150B	209367		
70173466001	**N-07781**	SM22 2320B	210813		
70173466001	**N-07781**	SM22 2540C	210386		
70173466001	**N-07781**	SM22 5540C	209564	SM22 5540C	209621
70173466001	**N-07781**	SM22 2330 LSI	211555		
70173466001	**N-07781**	EPA 218.7	734757		
70173466001	**N-07781**	EPA 300.0	211158		
70173466001	**N-07781**	EPA 300.1	732246		
70173466001	**N-07781**	EPA 300.1	732247		
70173466001	**N-07781**	EPA 353.2	209376		
70173466001	**N-07781**	EPA 353.2	209370		
70173466001	**N-07781**	SM22 4500 NH3 H	211074		
70173466001	**N-07781**	SM22 5310B	211369		
70173466001	**N-07781**	ASTM D7237-10	210720		

WO#: 70173466

70173466

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 5/18/2021

Collected By: AF

Accepted By: Mangs

Cooler Temp: 18.3 °C 5/18/21 1500

(N)

☐ WELL OFF LINE

☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water District (JWD)

Address:

Phone #:

Attn:

Proj. # or (Name): Well 22 - Dox

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
5/18 @ 0930	PW	Well 22 - RAW	RW		S	0.9	7.86	- 1,4-DIOXANE	
								- ALDEHYDES	
								- CARBOXYLIC & OXYLIC ACIDS	
								- TOC	
								- CHLORATE / CHLORITE	
								- BROMATE / BROMIDE	
								- FLUORIDE + SULFATE	
								- HALOACETIC ACIDS	
								- HEX. CHROME	
								- PFAS	
								- SOCs, DOCs, IOCs	

Remarks: (See email 4/28/2021 for full list of analysis)

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70173466
PM: SWM **Due Date: 06/03/21**
CLIENT: JWD

Client Name: Jericho Water Dist

Project

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

Tracking #:

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet Blue (None)

Thermometer Used: TH091 Correction Factor: +0.0

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 18.3 Cooler Temperature Corrected(°C): 18.3

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

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

Date and Initials of person examining contents: MN 5/18/21

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL (WT) OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC041002				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

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

Person Contacted: ALLEN FOK Date/Time: 5/19/21 3:30

Comments/ Resolution: NO SOC RECEIVED BUT LISTED ON COC.

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

ENV-FRM-MELV-0024 00

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

ACCREDITED
CERTIFICATE #'s 5890.01 & 5890.02

Laboratory Report

for

Pace Analytical Services, Inc.
575 Broad Hollow Road
Melville, NY 11747
Attention: Jennifer Aracri
Fax: 631-420-8436

Date of Issue
05/26/2021
EUROFINS EATON ANALYTICAL, LLC

NELAP ACCREDITED TNI LABORATORY
Utah ELCP CA00006

Report: 936375
Project: ALDEHYDES
Group: Aldehydes

TRG6: Shea Greiner

Project Manager

* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.
* Laboratory certifies that the test results meet all **TNI 2016 and ISO/IEC 17025:2017** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.
* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
* This report shall not be reproduced except in full, without the written approval of the laboratory.
* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA000062018
California	2813	**New Hampshire ***	2959
Colorado	Certified	**New Jersey ***	CA 008
Connecticut	PH-0107	**New Mexico**	Certified
Delaware	CA 006	**New York ***	11320
Florida *	E871024	**North Carolina**	06701
Georgia	947	**North Dakota**	R-009
Guam	18-005R	**Oregon ***	CA200003-005
Hawaii	Certified	**Pennsylvania ***	68-565
Idaho	Certified	**Puerto Rico**	Certified
Illinois *	200033	**Rhode Island**	LAO00326
Indiana	C-CA-01	**South Carolina**	87016
Iowa - Asbestos	413	**South Dakota**	Certified
Kansas *	E-10268	**Tennessee**	TN02839
Kentucky	90107	**Texas ***	T104704230-18-15
Louisiana *	LA180000	**Utah (Primary AB) ***	CA00006
Maine	CA0006	**Vermont**	VT0114
Maryland	224	**Virginia ***	460260
Commonwealth of Northern Marianas Is.	MP0004	**Washington**	C838
Massachusetts	M-CA006	**EPA Region 5**	Certified
Michigan	9906	**Los Angeles County Sanitation Districts**	10264
Mississippi	Certified		

* NELAP/TNI Recognized Accreditation Bodies

The tests listed below are accredited and meet the requirements of ISO/IEC 17025 as verified by the ANSI-ASQ National Accreditation Board/A2LA.
Refer to Certificate and scope of accreditation (5890) found at: https://www.eurofinsus.com/Eaton

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,2,3-TCP (5 PPT & 0.5 PPT)	CA SRL 524M-TCP	x		x
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Algal Toxins/Microcystin	In House Method (3570)			
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D Palin Test	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x		x
Glyphosate + AMPA	In House Method (3618)	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	Legiolert	x		x
Mercury	EPA 200.8	x		x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
Microcystin, Total	EPA 546	x		x
NDMA	EEA/Agilent 521.1 In house method (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphorous	SM 4500P E	x		x
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
Perfluorinated Polutant	In house Method (2434)	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-$S^{=}$ D		x	
Sulfite	SM 4500-SO^3B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Triazine Pesticides & Degradates	In House (3617)	x		x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x
Field Sampling	N/A			

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Acknowledgement of Samples Received

Addr: **Pace Analytical Services, Inc.**
575 Broad Hollow Road
Melville, NY 11747

Client ID: PACE-NY
Folder #: 936375
Project: ALDEHYDES
Sample Group: Aldehydes

Attn: Jennifer Aracri
Phone: 631-694-3040

Project Manager: Shea Greiner
Phone: (720) 491-1749
PO #: 70173466JSA

The following samples were received from you on **May 20, 2021** at **1332**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
202105200320	N-07781	05/18/2021 0930
	Variable ID: 70173466001	
	@ALDEHYDES	

Test Description

@ALDEHYDES -- EPA Method 556

936375

Chain of Custody

PASI New York Laboratory

Pace Analytical®
www.pacelabs.com

Workorder: 70173466 **Workorder Name:** WELL 22 - AOP 5/18 **Results Requested By:** 6/2/2021

Report / Invoice To

Jennifer Aracri
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone (631)694-3040
Email: jennifer.aracri@pacelabs.com

Subcontract To

Eurofins Eaton Analytical
750 Royal Oaks Dr., Suite 100
Monrovia, CA 91016

P.O. 70173466JSA

State of Sample Origin:

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4	Preserved Containers: Unpreserved					Requested Analysis: Aldehydes												LAB USE ONLY
1	N-07781	5/18/2021 09:30	70173466001	Drinking							X												
2																							
3																							
4																							
5																							

Transfers	Released By	Date/Time	Received By	Date/Time
1	Mullaff INV	5/19/21 1800	[signature]	5-20-21/1332
2				
3				

Comments

Cooler Temperature on Receipt 4.6 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

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INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 436375

SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

IR Gun ID = 63117 (Observation= 4.7 °C) (Corr.Factor 0.1 °C) (Final = 4.6 °C)

TYPE OF ICE: Real ✓ Synthetic ____ No Ice ____ **CONDITION OF ICE:** Frozen ____ Partially Frozen ✓ Thawed ____ N/A ____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

Compliance Acceptance Criteria:

1) **Chemistry:** >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)

2) **Microbiology, Distribution:** < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) **Microbiology, Surface Water:** < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)	2 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)
3 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)	4 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

4 **Dioxin (1613 or 2,3,7,8 TCDD):** must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) **pH Check.** Manufacturer: _____ Lot Number: _____ pH strip type: 0 - 14 or _____ Expiration Date _____ Results: _____

6) **Chlorine check.** Manufacturer: Sansafe. Lot No.: _____ Expiration Date: _____ Results _____

7) **VOA and Radon Headspace:** **No Samples with Headspace:** ☐ **Samples with Headspace (see below):** ☐

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)

Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

Samp ID	Bottle #	None/<6 mm	>6mm

Samp ID	Bottle #	None/<6 mm	>6mm

Samp ID	Bottle #	None/<6 mm	>6mm

Samp ID	Bottle #	None/<6 mm	>6mm

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): _____

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:			Eurofins Eaton Analytical		

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Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 936375
Project: ALDEHYDES
Group: Aldehydes

Pace Analytical Services, Inc.
Jennifer Aracri
575 Broad Hollow Road
Melville, NY 11747

The Comments Report may be blank if there are no comments for this report.

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Laboratory Hits

Report: 936375
Project: ALDEHYDES
Group: Aldehydes

Pace Analytical Services, Inc.
Jennifer Aracri
575 Broad Hollow Road
Melville, NY 11747

Samples Received on:
05/20/2021 1332

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data

Report: 936375
Project: ALDEHYDES
Group: Aldehydes

Pace Analytical Services, Inc.
Jennifer Aracri
575 Broad Hollow Road
Melville, NY 11747

Samples Received on:
05/20/2021 1332

N-07781 (202105200320) **Sampled on 05/18/2021 0930**

Variable ID: 70173466001

EPA 556 - EPA Method 556

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Acetaldehyde	ND	ug/L	1.0	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Benzaldehyde	ND	ug/L	1.0	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Butanal	ND	ug/L	1.0	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Crotonaldehyde	ND	ug/L	1.0	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Cyclohexanone	ND	ug/L	1.0	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Decanal	ND	ug/L	1.0	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Formaldehyde	ND	ug/L	5.0	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Glyoxal	ND	ug/L	10	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Heptanal	ND	ug/L	1.0	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Hexanal	ND	ug/L	1.0	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Methyl glyoxal	ND	ug/L	10	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Nonanal	ND	ug/L	1.0	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Octanal	ND	ug/L	1.0	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Pentanal	ND	ug/L	1.0	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	Propanal	ND	ug/L	1.0	1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	1,2-Dibromopropane	95	%		1
05/21/21	05/21/21 22:46	1329863	1329867	(EPA 556)	2,3,5,6-Tetrafluorobenzaldehyde	100	%		1

Rounding on totals after summation.
(c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight differences in final result than the component analyses.

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Laboratory QC Summary

Report: 936375
Project: ALDEHYDES
Group: Aldehydes

Pace Analytical Services, Inc.

EPA Method 556

Prep Batch: 1329863 **Analytical Batch: 1329867** **Analysis Date: 05/21/2021**

202105200320 N-07781 Analyzed by: CWG

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Report: 936375
Project: ALDEHYDES
Group: Aldehydes

Pace Analytical Services, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
EPA Method 556 by EPA 556									
Prep Batch: 1329863 Analytical Batch: 1329867						**Analysis Date: 05/21/2021**			
CCCH	1,2-Dibromopropane (I)			92.8	%	93	(70-130)		
CCCM	1,2-Dibromopropane (I)			96.5	%	97	(70-130)		
CCCM	1,2-Dibromopropane (I)			92.9	%	93	(70-130)		
DUP1_202105200320	1,2-Dibromopropane (I)			96.2	%	96	(70-130)		
MBLK	1,2-Dibromopropane (I)			97.6	%	98	(70-130)		
MRL_CHK	1,2-Dibromopropane (I)			98.6	%	99	(70-130)		
MS1_202105190614	1,2-Dibromopropane (I)			96.8	%	97	(70-130)		
CCCH	2,3,5,6-Tetrafluorobenzaldehyde (S)			105	%	105	(70-130)		
CCCM	2,3,5,6-Tetrafluorobenzaldehyde (S)			107	%	107	(70-130)		
CCCM	2,3,5,6-Tetrafluorobenzaldehyde (S)			102	%	102	(70-130)		
DUP1_202105200320	2,3,5,6-Tetrafluorobenzaldehyde (S)			103	%	103	(70-130)		
MBLK	2,3,5,6-Tetrafluorobenzaldehyde (S)			92.3	%	92	(70-130)		
MRL_CHK	2,3,5,6-Tetrafluorobenzaldehyde (S)			102	%	102	(70-130)		
MS1_202105190614	2,3,5,6-Tetrafluorobenzaldehyde (S)			104	%	104	(70-130)		
CCCH	Acetaldehyde		10	10.6	ug/L	106	(70-130)		
CCCM	Acetaldehyde		5	5.17	ug/L	103	(70-130)		
CCCM	Acetaldehyde		5	5.11	ug/L	102	(70-130)		
DUP1_202105200320	Acetaldehyde	ND		ND	ug/L		(0-30)		
MBLK	Acetaldehyde			<0.50	ug/L				
MRL_CHK	Acetaldehyde		1	1.23	ug/L	123	(50-150)		
MS1_202105190614	Acetaldehyde	ND	5	4.97	ug/L	94	(70-130)		
CCCH	Benzaldehyde		10	10.4	ug/L	104	(70-130)		
CCCM	Benzaldehyde		5	5.20	ug/L	104	(70-130)		
CCCM	Benzaldehyde		5	4.95	ug/L	99	(70-130)		
DUP1_202105200320	Benzaldehyde	ND		ND	ug/L		(0-30)		
MBLK	Benzaldehyde			<0.50	ug/L				
MRL_CHK	Benzaldehyde		1	0.844	ug/L	84	(50-150)		
MS1_202105190614	Benzaldehyde	ND	5	4.92	ug/L	98	(70-130)		
CCCH	Butanal		10	10.5	ug/L	105	(70-130)		
CCCM	Butanal		5	5.13	ug/L	103	(70-130)		
CCCM	Butanal		5	5.02	ug/L	100	(70-130)		
DUP1_202105200320	Butanal	ND		ND	ug/L		(0-30)		
MBLK	Butanal			<0.50	ug/L				
MRL_CHK	Butanal		1	1.05	ug/L	105	(50-150)		
MS1_202105190614	Butanal	ND	5	4.87	ug/L	95	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Laboratory QC

Report: 936375
Project: ALDEHYDES
Group: Aldehydes

Pace Analytical Services, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
CCCH	Crotonaldehyde		10	10.6	ug/L	106	(70-130)		
CCCM	Crotonaldehyde		5	5.24	ug/L	105	(70-130)		
CCCM	Crotonaldehyde		5	5.10	ug/L	102	(70-130)		
DUP1_202105200320	Crotonaldehyde	ND		ND	ug/L		(0-30)		
MBLK	Crotonaldehyde			<0.50	ug/L				
MRL_CHK	Crotonaldehyde		1	0.894	ug/L	89	(50-150)		
MS1_202105190614	Crotonaldehyde	ND	5	5.00	ug/L	100	(70-130)		
CCCH	Cyclohexanone		10	10.6	ug/L	106	(70-130)		
CCCM	Cyclohexanone		5	5.29	ug/L	106	(70-130)		
CCCM	Cyclohexanone		5	5.10	ug/L	102	(70-130)		
DUP1_202105200320	Cyclohexanone	ND		ND	ug/L		(0-30)		
MBLK	Cyclohexanone			<0.50	ug/L				
MRL_CHK	Cyclohexanone		1	1.15	ug/L	115	(50-150)		
MS1_202105190614	Cyclohexanone	ND	5	5.02	ug/L	100	(70-130)		
CCCH	Decanal		10	10.2	ug/L	103	(70-130)		
CCCM	Decanal		5	5.19	ug/L	104	(70-130)		
CCCM	Decanal		5	5.04	ug/L	101	(70-130)		
DUP1_202105200320	Decanal	ND		ND	ug/L		(0-30)		
MBLK	Decanal			<2.5	ug/L				
MRL_CHK	Decanal		1	1.14	ug/L	114	(50-150)		
MS1_202105190614	Decanal	ND	5	4.97	ug/L	94	(70-130)		
CCCH	Formaldehyde		50	51.9	ug/L	104	(70-130)		
CCCM	Formaldehyde		25	25.4	ug/L	102	(70-130)		
CCCM	Formaldehyde		25	25.1	ug/L	100	(70-130)		
DUP1_202105200320	Formaldehyde	ND		ND	ug/L		(0-30)		
MBLK	Formaldehyde			<2.5	ug/L				
MRL_CHK	Formaldehyde		5	6.19	ug/L	124	(50-150)		
MS1_202105190614	Formaldehyde	ND	25	26.0	ug/L	92	(70-130)		
CCCH	Glyoxal		100	101	ug/L	101	(70-130)		
CCCM	Glyoxal		50	52.0	ug/L	104	(70-130)		
CCCM	Glyoxal		50	50.2	ug/L	101	(70-130)		
DUP1_202105200320	Glyoxal	ND		ND	ug/L		(0-30)		
MBLK	Glyoxal			<5	ug/L				
MRL_CHK	Glyoxal		10	9.19	ug/L	92	(50-150)		
MS1_202105190614	Glyoxal	ND	50	51.8	ug/L	102	(70-130)		
CCCH	Heptanal		10	10.5	ug/L	105	(70-130)		
CCCM	Heptanal		5	5.25	ug/L	105	(70-130)		
CCCM	Heptanal		5	5.06	ug/L	101	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory QC

Report: 936375
Project: ALDEHYDES
Group: Aldehydes

Pace Analytical Services, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
DUP1_202105200320	Heptanal	ND		ND	ug/L		(0-30)		
MBLK	Heptanal			<0.5	ug/L				
MRL_CHK	Heptanal		1	1.11	ug/L	111	(50-150)		
MS1_202105190614	Heptanal	ND	5	4.68	ug/L	91	(70-130)		
CCCH	Hexanal		10	10.5	ug/L	105	(70-130)		
CCCM	Hexanal		5	5.33	ug/L	107	(70-130)		
CCCM	Hexanal		5	4.72	ug/L	94	(70-130)		
DUP1_202105200320	Hexanal	ND		ND	ug/L		(0-30)		
MBLK	Hexanal			<0.5	ug/L				
MRL_CHK	Hexanal		1	0.840	ug/L	84	(50-150)		
MS1_202105190614	Hexanal	ND	5	4.86	ug/L	91	(70-130)		
CCCH	Methyl glyoxal		100	103	ug/L	103	(70-130)		
CCCM	Methyl glyoxal		50	51.7	ug/L	103	(70-130)		
CCCM	Methyl glyoxal		50	50.2	ug/L	100	(70-130)		
DUP1_202105200320	Methyl glyoxal	ND		ND	ug/L		(0-30)		
MBLK	Methyl glyoxal			<5	ug/L				
MRL_CHK	Methyl glyoxal		10	8.77	ug/L	88	(50-150)		
MS1_202105190614	Methyl glyoxal	ND	50	50.9	ug/L	101	(70-130)		
CCCH	Nonanal		10	10.6	ug/L	106	(70-130)		
CCCM	Nonanal		5	5.20	ug/L	104	(70-130)		
CCCM	Nonanal		5	5.11	ug/L	102	(70-130)		
DUP1_202105200320	Nonanal	ND		ND	ug/L		(0-30)		
MBLK	Nonanal			<0.5	ug/L				
MRL_CHK	Nonanal		1	1.36	ug/L	136	(50-150)		
MS1_202105190614	Nonanal	ND	5	4.96	ug/L	89	(70-130)		
CCCH	Octanal		10	10.7	ug/L	107	(70-130)		
CCCM	Octanal		5	5.24	ug/L	105	(70-130)		
CCCM	Octanal		5	5.04	ug/L	101	(70-130)		
DUP1_202105200320	Octanal	ND		ND	ug/L		(0-30)		
MBLK	Octanal			<0.5	ug/L				
MRL_CHK	Octanal		1	1.10	ug/L	110	(50-150)		
MS1_202105190614	Octanal	ND	5	4.65	ug/L	87	(70-130)		
CCCH	Pentanal		10	10.3	ug/L	103	(70-130)		
CCCM	Pentanal		5	5.06	ug/L	101	(70-130)		
CCCM	Pentanal		5	4.90	ug/L	98	(70-130)		
DUP1_202105200320	Pentanal	ND		ND	ug/L		(0-30)		
MBLK	Pentanal			<0.5	ug/L				
MRL_CHK	Pentanal		1	1.04	ug/L	104	(50-150)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Laboratory QC

Report: 936375
Project: ALDEHYDES
Group: Aldehydes

Pace Analytical Services, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS1_202105190614	Pentanal	ND	5	4.75	ug/L	95	(70-130)		
CCCH	Propanal		10	10.5	ug/L	105	(70-130)		
CCCM	Propanal		5	5.17	ug/L	103	(70-130)		
CCCM	Propanal		5	5.08	ug/L	102	(70-130)		
DUP1_202105200320	Propanal	ND		ND	ug/L		(0-30)		
MBLK	Propanal			<0.5	ug/L				
MRL_CHK	Propanal		1	1.08	ug/L	108	(50-150)		
MS1_202105190614	Propanal	ND	5	4.96	ug/L	97	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

element

9240 Santa Fe Springs Road
Santa Fe Springs, CA
90670 USA

P: 1 562 948 2225
F: 1 562 948 5850
info.santafesprings@element.com
element.com

Laboratory Report

June 7, 2021

Pace Analytical Services LLC
575 Broadhollow Rd Ste 2
Melville, NY 11747-5009

Attn: Jennifer Aracri

Element Job No:	247598
Purchase Order:	70173466JSA
Project Name:	Drinking Water - WELL 22 - AOP 5/18
Samples Received:	1
Date Received:	05-20-2021

Robert Stead
Senior Chemist

Ishika Lokuge
Senior Chemist

Oxalic Acid (as Oxalate) by SOP 4130, Rev 8
Ion Chromatography-Suppressed Conductivity

Sample preparation: Sample was analyzed undiluted. Results were measured as the oxalate ion and converted to the acid by molecular weight.

Column:	AS11 250 mm x 4 mm, AG11 Guard 50 mm x 4 mm
Eluent:	Potassium Hydroxide, 11.6 mM with step gradient to 35 mM for column cleaning.
Flow:	1.8 mL/min
Injection:	50 µL
Detection:	Suppressed Conductivity

Parts Per Million (µg/mL)

Sample ID	Oxalic Acid
N-07781	ND
Method Blank	ND
Detection Limit	0.02

Date Analyzed: 05-28-2021

Quality Control Summary

Sample ID: N-07781

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	RPD
Oxalic Acid	ND	1.03	0.844	82	0.796	77	6
QC Guidelines				66-120		66-120	10

Selected Organic Acids by SOP 4130, Rev 8
Ion Chromatography-Suppressed Conductivity

Sample preparation: The samples were analyzed undiluted. Results were measured as the ion and converted to the acid by molecular weight.

Column:	Dionex AS11-HC 250 mm x 4 mm, AG11-HC Guard 50 mm x 4 mm
Eluent:	2.4 mM KOH
Flow:	1.2 mL/min
Injection:	300 µL
Detection:	Suppressed Conductivity

Parts Per Million (mg/L)

Sample ID	Acetic Acid	Butyric Acid	Formic Acid	Propionic Acid	Pyruvic Acid	Valeric Acid
N-07781	ND	ND	ND	ND	ND	ND
Method Blank	ND	ND	ND	ND	ND	ND
Detection Limit	0.01	0.02	0.01	0.01	0.02	0.02

Date Analyzed: 05-26-2021

Quality Control Summary

Sample ID: Batch QC

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
Acetic Acid	ND	0.511	0.568	111	0.584	114	3
Butyric Acid	ND	0.508	0.536	105	0.551	108	3
Formic Acid	ND	0.514	0.535	104	0.546	106	2
Propionic Acid	ND	0.509	0.582	114	0.595	117	2
Pyruvic Acid	ND	0.508	0.511	101	0.522	103	2
Valeric Acid	ND	0.508	0.512	101	0.525	103	3

QC Guidelines

Analyte	% Recovery	RPD Limit
Acetic Acid	69-140	20
Butyric Acid	63-148	26
Formic Acid	53-162	19
Propionic Acid	82-134	9
Pyruvic Acid	65-130	22
Valeric Acid	80-120	10

Chain of Custody

PASI New York Laboratory

Pace Analytical®
www.pacelabs.com

Workorder: 70173466 **Workorder Name:** WELL 22 - AOP 5/18 **Results Requested By:** 6/2/2021

Report / Invoice To

Jennifer Aracri
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone (631)694-3040
Email: jennifer.aracri@pacelabs.com

Subcontract To

Element
9240 Santa Fe Springs Rd.,
Santa Fe Springs, CA 90670

P.O. 70173466JSA

State of Sample Origin:

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4	Unpreserved					Requested Analysis: Carboxylic & Oxylic Acid												LAB USE ONLY
1	N-07781	5/18/2021 09:30	70173466001	Drinking							X												
2																							
3																							
4																							
5																							

Transfers	Released By	Date/Time	Received By	Date/Time
1	Matthew Fl / INV	5/19/21 1800	fedex	
2	fedex		C < Element	05.20.2021 12:16PM
3				

Comments

247598

Cooler Temperature on Receipt 3.2 °C | **Custody Seal** Y or (N) | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

June 21, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Allen Fok, D & B Engineers
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70175175001	**N-00198**	Drinking Water	06/02/21 08:43	06/02/21 11:53
70175175002	**N-12734**	Drinking Water	06/02/21 09:03	06/02/21 11:53
70175175003	**N-08043**	Drinking Water	06/02/21 09:30	06/02/21 11:53
70175175004	**N-06093**	Drinking Water	06/02/21 09:45	06/02/21 11:53
70175175005	**N-06092**	Drinking Water	06/02/21 09:55	06/02/21 11:53
70175175006	**N-10149**	Drinking Water	06/02/21 10:25	06/02/21 11:53
70175175007	**N-07772**	Drinking Water	06/02/21 11:06	06/02/21 11:53
70175175008	**N-07773**	Drinking Water	06/02/21 11:16	06/02/21 11:53
70175175009	**N-12795**	Drinking Water	06/02/21 10:30	06/02/21 11:53

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70175175001	**N-00198**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70175175002	**N-12734**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70175175003	**N-08043**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175175004	**N-06093**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175175005	**N-06092**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175175006	**N-10149**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175175007	**N-07772**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175175008	**N-07773**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175175009	**N-12795**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O

PACE-MV = Pace Analytical Services - Melville
PASI-O = Pace Analytical Services - Ormond Beach

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Sample: N-00198 **Lab ID: 70175175001** Collected: 06/02/21 08:43 Received: 06/02/21 11:53 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.51**	ug/L	0.020		1	06/05/21 07:24	06/08/21 18:19	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	06/05/21 07:24	06/08/21 18:19		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 20:05	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 20:05	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 20:05	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 20:05	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 20:05	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 20:05	335-67-1	
Surrogates									
13C2-PFDA (S)	115	%	70-130		1	06/08/21 11:28	06/17/21 20:05		
13C2-PFHxA (S)	117	%	70-130		1	06/08/21 11:28	06/17/21 20:05		
NEtFOSAA-d5 (S)	145	%	70-130		1	06/08/21 11:28	06/17/21 20:05		S0
HFPO-DAS (S)	112	%	70-130		1	06/08/21 11:28	06/17/21 20:05		

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Sample: N-12734 **Lab ID: 70175175002** Collected: 06/02/21 09:03 Received: 06/02/21 11:53 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.18**	ug/L	0.020		1	06/05/21 07:24	06/08/21 18:35	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	06/05/21 07:24	06/08/21 18:35		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 20:36	375-73-5	
Perfluoroheptanoic acid	**2.4**	ng/L	1.9		1	06/08/21 11:28	06/17/21 20:36	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 20:36	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 20:36	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 20:36	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 20:36	335-67-1	
Surrogates									
13C2-PFDA (S)	110	%	70-130		1	06/08/21 11:28	06/17/21 20:36		
13C2-PFHxA (S)	115	%	70-130		1	06/08/21 11:28	06/17/21 20:36		
NEtFOSAA-d5 (S)	143	%	70-130		1	06/08/21 11:28	06/17/21 20:36		S0
HFPO-DAS (S)	106	%	70-130		1	06/08/21 11:28	06/17/21 20:36		

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Sample: N-08043 **Lab ID: 70175175003** Collected: 06/02/21 09:30 Received: 06/02/21 11:53 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.39**	ug/L	0.020		1	06/05/21 07:24	06/08/21 18:52	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	06/05/21 07:24	06/08/21 18:52		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.1**	ng/L	2.1		1	06/08/21 11:28	06/17/21 21:08	375-73-5	
Perfluoroheptanoic acid	**<2.1**	ng/L	2.1		1	06/08/21 11:28	06/17/21 21:08	375-85-9	
Perfluorohexanesulfonic acid	**<2.1**	ng/L	2.1		1	06/08/21 11:28	06/17/21 21:08	355-46-4	
Perfluorononanoic acid	**<2.1**	ng/L	2.1		1	06/08/21 11:28	06/17/21 21:08	375-95-1	
Perfluorooctanesulfonic acid	**<2.1**	ng/L	2.1	10	1	06/08/21 11:28	06/17/21 21:08	1763-23-1	
Perfluorooctanoic acid	**<2.1**	ng/L	2.1	10	1	06/08/21 11:28	06/17/21 21:08	335-67-1	
Surrogates									
13C2-PFDA (S)	110	%	70-130		1	06/08/21 11:28	06/17/21 21:08		
13C2-PFHxA (S)	114	%	70-130		1	06/08/21 11:28	06/17/21 21:08		
HFPO-DAS (S)	106	%	70-130		1	06/08/21 11:28	06/17/21 21:08		

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Sample: N-06093 **Lab ID: 70175175004** Collected: 06/02/21 09:45 Received: 06/02/21 11:53 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.12**	ug/L	0.020		1	06/05/21 07:24	06/08/21 19:08	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	06/05/21 07:24	06/08/21 19:08		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 21:24	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 21:24	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 21:24	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 21:24	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 21:24	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 21:24	335-67-1	
Surrogates									
13C2-PFDA (S)	91	%	70-130		1	06/08/21 11:28	06/17/21 21:24		
13C2-PFHxA (S)	93	%	70-130		1	06/08/21 11:28	06/17/21 21:24		
HFPO-DAS (S)	82	%	70-130		1	06/08/21 11:28	06/17/21 21:24		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Sample: N-06092 **Lab ID: 70175175005** Collected: 06/02/21 09:55 Received: 06/02/21 11:53 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.058**	ug/L	0.020		1	06/05/21 07:24	06/08/21 19:25	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	06/05/21 07:24	06/08/21 19:25		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 21:40	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 21:40	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 21:40	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 21:40	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 21:40	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 21:40	335-67-1	
Surrogates									
13C2-PFDA (S)	102	%	70-130		1	06/08/21 11:28	06/17/21 21:40		
13C2-PFHxA (S)	98	%	70-130		1	06/08/21 11:28	06/17/21 21:40		
HFPO-DAS (S)	94	%	70-130		1	06/08/21 11:28	06/17/21 21:40		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Sample: N-10149 **Lab ID: 70175175006** Collected: 06/02/21 10:25 Received: 06/02/21 11:53 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.50**	ug/L	0.020		1	06/05/21 07:24	06/08/21 19:42	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	98	%	70-130		1	06/05/21 07:24	06/08/21 19:42		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.0**	ng/L	2.0		1	06/08/21 11:28	06/17/21 21:55	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	06/08/21 11:28	06/17/21 21:55	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	06/08/21 11:28	06/17/21 21:55	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	06/08/21 11:28	06/17/21 21:55	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	06/08/21 11:28	06/17/21 21:55	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	06/08/21 11:28	06/17/21 21:55	335-67-1	
Surrogates									
13C2-PFDA (S)	101	%	70-130		1	06/08/21 11:28	06/17/21 21:55		
13C2-PFHxA (S)	104	%	70-130		1	06/08/21 11:28	06/17/21 21:55		
HFPO-DAS (S)	98	%	70-130		1	06/08/21 11:28	06/17/21 21:55		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Sample: N-07772 **Lab ID: 70175175007** Collected: 06/02/21 11:06 Received: 06/02/21 11:53 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.24**	ug/L	0.020		1	06/05/21 07:24	06/08/21 19:59	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	98	%	70-130		1	06/05/21 07:24	06/08/21 19:59		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 22:27	375-73-5	
Perfluoroheptanoic acid	**15.7**	ng/L	1.9		1	06/08/21 11:28	06/17/21 22:27	375-85-9	
Perfluorohexanesulfonic acid	**2.5**	ng/L	1.9		1	06/08/21 11:28	06/17/21 22:27	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 22:27	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 22:27	1763-23-1	
Perfluorooctanoic acid	**6.0**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 22:27	335-67-1	
Surrogates									
13C2-PFDA (S)	91	%	70-130		1	06/08/21 11:28	06/17/21 22:27		
13C2-PFHxA (S)	93	%	70-130		1	06/08/21 11:28	06/17/21 22:27		
HFPO-DAS (S)	91	%	70-130		1	06/08/21 11:28	06/17/21 22:27		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Sample: N-07773 **Lab ID: 70175175008** Collected: 06/02/21 11:16 Received: 06/02/21 11:53 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.28**	ug/L	0.020		1	06/05/21 07:24	06/08/21 20:15	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	06/05/21 07:24	06/08/21 20:15		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 22:43	375-73-5	
Perfluoroheptanoic acid	**18.3**	ng/L	1.9		1	06/08/21 11:28	06/17/21 22:43	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 22:43	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 22:43	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 22:43	1763-23-1	
Perfluorooctanoic acid	**5.9**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 22:43	335-67-1	
Surrogates									
13C2-PFDA (S)	88	%	70-130		1	06/08/21 11:28	06/17/21 22:43		
13C2-PFHxA (S)	93	%	70-130		1	06/08/21 11:28	06/17/21 22:43		
HFPO-DAS (S)	90	%	70-130		1	06/08/21 11:28	06/17/21 22:43		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Sample: N-12795 **Lab ID: 70175175009** Collected: 06/02/21 10:30 Received: 06/02/21 11:53 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.41**	ug/L	0.020		1	06/05/21 09:29	06/08/21 21:55	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	06/05/21 09:29	06/08/21 21:55		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 22:11	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 22:11	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 22:11	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/17/21 22:11	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 22:11	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/17/21 22:11	335-67-1	
Surrogates									
13C2-PFDA (S)	92	%	70-130		1	06/08/21 11:28	06/17/21 22:11		
13C2-PFHxA (S)	95	%	70-130		1	06/08/21 11:28	06/17/21 22:11		
HFPO-DAS (S)	88	%	70-130		1	06/08/21 11:28	06/17/21 22:11		

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

QC Batch: 212012
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70175175001, 70175175002, 70175175003, 70175175004, 70175175005, 70175175006, 70175175007, 70175175008

METHOD BLANK: 1062325
Matrix: Drinking Water
Associated Lab Samples: 70175175001, 70175175002, 70175175003, 70175175004, 70175175005, 70175175006, 70175175007, 70175175008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	06/07/21 17:12	
1,4-Dioxane-d8 (S)	%	94	70-130	06/07/21 17:12	

LABORATORY CONTROL SAMPLE: 1062326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	<0.020	78	70-130	
1,4-Dioxane-d8 (S)	%			92	70-130	

MATRIX SPIKE SAMPLE: 1062327

Parameter	Units	70175445002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2.0	0.02	1.9	-102	70-130	M1
1,4-Dioxane-d8 (S)	%				92	70-130	

SAMPLE DUPLICATE: 1062328

Parameter	Units	70175445003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	91	95		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

QC Batch: 212081
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70175175009

METHOD BLANK: 1062741
Matrix: Drinking Water
Associated Lab Samples: 70175175009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	06/08/21 20:49	
1,4-Dioxane-d8 (S)	%	96	70-130	06/08/21 20:49	

LABORATORY CONTROL SAMPLE: 1062742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.7	85	70-130	
1,4-Dioxane-d8 (S)	%			89	70-130	

MATRIX SPIKE SAMPLE: 1062743

Parameter	Units	70175682001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	2	1.8	88	70-130	
1,4-Dioxane-d8 (S)	%				91	70-130	

SAMPLE DUPLICATE: 1062744

Parameter	Units	70175175009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.41	0.42	2	20	
1,4-Dioxane-d8 (S)	%	95	95		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

QC Batch: 735772
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70175175001, 70175175002, 70175175003, 70175175004, 70175175005, 70175175006, 70175175007, 70175175008, 70175175009

METHOD BLANK: 4013848
Matrix: Water
Associated Lab Samples: 70175175001, 70175175002, 70175175003, 70175175004, 70175175005, 70175175006, 70175175007, 70175175008, 70175175009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	06/17/21 19:02	
Perfluoroheptanoic acid	ng/L	ND	2.0	06/17/21 19:02	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	06/17/21 19:02	
Perfluorononanoic acid	ng/L	ND	2.0	06/17/21 19:02	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	06/17/21 19:02	
Perfluorooctanoic acid	ng/L	ND	2.0	06/17/21 19:02	
13C2-PFDA (S)	%	123	70-130	06/17/21 19:02	
13C2-PFHxA (S)	%	118	70-130	06/17/21 19:02	
HFPO-DAS (S)	%	114	70-130	06/17/21 19:02	
NEtFOSAA-d5 (S)	%	136	70-130	06/17/21 19:02	S3

LABORATORY CONTROL SAMPLE: 4013849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	142	124	87	70-130	
Perfluoroheptanoic acid	ng/L	160	155	97	70-130	
Perfluorohexanesulfonic acid	ng/L	146	154	105	70-130	
Perfluorononanoic acid	ng/L	160	167	104	70-130	
Perfluorooctanesulfonic acid	ng/L	148	155	105	70-130	
Perfluorooctanoic acid	ng/L	160	162	101	70-130	
13C2-PFDA (S)	%			123	70-130	
13C2-PFHxA (S)	%			118	70-130	
HFPO-DAS (S)	%			112	70-130	
NEtFOSAA-d5 (S)	%			135	70-130	S0

LABORATORY CONTROL SAMPLE: 4013850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.8J	100	50-150	
Perfluoroheptanoic acid	ng/L	2	2.4	121	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	2.4	134	50-150	
Perfluorononanoic acid	ng/L	2	2.5	126	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	2.5	133	50-150	
Perfluorooctanoic acid	ng/L	2	2.6	131	50-150	
13C2-PFDA (S)	%			140	70-130	S0
13C2-PFHxA (S)	%			139	70-130	S0

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

LABORATORY CONTROL SAMPLE: 4013850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
HFPO-DAS (S)	%			132	70-130	S0
NEtFOSAA-d5 (S)	%			151	70-130	S0

MATRIX SPIKE SAMPLE: 4013851

Parameter	Units	70175175001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	139	131	94	70-130	
Perfluoroheptanoic acid	ng/L	<1.9	157	158	100	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.9	143	171	119	70-130	
Perfluorononanoic acid	ng/L	<1.9	157	158	101	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.9	145	156	107	70-130	
Perfluorooctanoic acid	ng/L	<1.9	157	165	105	70-130	
13C2-PFDA (S)	%				112	70-130	
13C2-PFHxA (S)	%				114	70-130	
HFPO-DAS (S)	%				110	70-130	
NEtFOSAA-d5 (S)	%				139	70-130	S0

SAMPLE DUPLICATE: 4013852

Parameter	Units	70175175002 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	<1.8		30	
Perfluoroheptanoic acid	ng/L	2.4	2.3	2	30	
Perfluorohexanesulfonic acid	ng/L	<1.9	<1.8		30	
Perfluorononanoic acid	ng/L	<1.9	<1.8		30	
Perfluorooctanesulfonic acid	ng/L	<1.9	<1.8		30	
Perfluorooctanoic acid	ng/L	<1.9	1.9		30	
13C2-PFDA (S)	%	110	105			
13C2-PFHxA (S)	%	115	112			
HFPO-DAS (S)	%	106	103			
NEtFOSAA-d5 (S)	%	143	144			S0

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 70175175

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

SAMPLE QUALIFIERS

Sample: 70175175001

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

Sample: 70175175002

[1] RUN TO WASTE

Sample: 70175175006

[1] RUN TO WASTE

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S0 Surrogate recovery outside laboratory control limits.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE/PFAS 6/2
Pace Project No.: 70175175

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70175175001	**N-00198**	EPA 522	212012	EPA 522	212099
70175175002	**N-12734**	EPA 522	212012	EPA 522	212099
70175175003	**N-08043**	EPA 522	212012	EPA 522	212099
70175175004	**N-06093**	EPA 522	212012	EPA 522	212099
70175175005	**N-06092**	EPA 522	212012	EPA 522	212099
70175175006	**N-10149**	EPA 522	212012	EPA 522	212099
70175175007	**N-07772**	EPA 522	212012	EPA 522	212099
70175175008	**N-07773**	EPA 522	212012	EPA 522	212099
70175175009	**N-12795**	EPA 522	212081	EPA 522	212100
70175175001	**N-00198**	EPA 537.1	735772	EPA 537.1	738251
70175175002	**N-12734**	EPA 537.1	735772	EPA 537.1	738251
70175175003	**N-08043**	EPA 537.1	735772	EPA 537.1	738251
70175175004	**N-06093**	EPA 537.1	735772	EPA 537.1	738251
70175175005	**N-06092**	EPA 537.1	735772	EPA 537.1	738251
70175175006	**N-10149**	EPA 537.1	735772	EPA 537.1	738251
70175175007	**N-07772**	EPA 537.1	735772	EPA 537.1	738251
70175175008	**N-07773**	EPA 537.1	735772	EPA 537.1	738251
70175175009	**N-12795**	EPA 537.1	735772	EPA 537.1	738251

WO#: 70175175

70175175

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 6-2-21

Collected By: [illegible] (B)

Accepted By: [illegible]

Cooler Temp: 12.4 °C 6/2/21 1153

☐ WELL OFF LINE

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho water

Address: 125 Convent Rd

Phone #: 516 921 8230

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
6-2-21 8:43	PW	W-00198 well 3	RW		RO			1,4 Dioxane / PFOS / PFOA	
6-2-21 9:03	PW	W-12734 well 4 Ran to B/O	RW		RO			1,4 Dioxane / PFOS / PFOA	
6-2-21 9:30	PW	W-03043 well 23	RW		RO			1,4 Dioxane / PFOS / PFOA	
6-2-21 9:45	PW	W-06093 well 13	RW		RO			1,4 Dioxane / PFOS / PFOA	
6-2-21 9:55	PW	W-06092 well 12	RW		RO			1,4 Dioxane / PFOS / PFOA	
6-2-21 10:25	PW	W-10149 well 20 Ran to B/O	RW		RO			1,4 Dioxane / PFOS / PFOA	
6-2-21 11:06	PW	W-07772 well 18	RW		RO			1,4 Dioxane / PFOS / PFOA	
6-2-21 11:16	PW	W-07773 well 19	RW		RO			1,4 Dioxane / PFOS / PFOA	
6-2-21 10:30	PW	W-12795 well 21	RW		RO			1,4 Dioxane / PFOS / PFOA	

Remarks: well 4 + 20 Ran to Blue after

Pace Analytical®

Sample Condition Upon Rec

WO#: 70175175
PM: JSA **Due Date: 06/14/21**
CLIENT: JWD

Client Name: Jericho WD

Projec

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

Tracking #:

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 12.4 Cooler Temperature Corrected(°C): 12.4

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet (Blue) None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: MS 6/2/21

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID, Matrix: SL (WT) OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

June 21, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Allen Fok, D & B Engineers
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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

Pace Analytical Services, LLC
575 Broad Hollow Road
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SAMPLE SUMMARY

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70175233001	**N-14003**	Drinking Water	06/02/21 10:58	06/02/21 15:03
70175233002	**N-08713**	Drinking Water	06/02/21 11:03	06/02/21 15:03
70175233003	**N-05201**	Drinking Water	06/02/21 11:22	06/02/21 15:03
70175233004	**N-03475**	Drinking Water	06/02/21 12:21	06/02/21 15:03
70175233005	**N-11295**	Drinking Water	06/02/21 12:48	06/02/21 15:03
70175233006	**N-11107**	Drinking Water	06/02/21 12:58	06/02/21 15:03
70175233007	**N-07781**	Drinking Water	06/02/21 13:18	06/02/21 15:03
70175233008	**N-08355**	Drinking Water	06/02/21 13:26	06/02/21 15:03
70175233009	**N-13119**	Drinking Water	06/02/21 13:42	06/02/21 15:03

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SAMPLE ANALYTE COUNT

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70175233001	**N-14003**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175233002	**N-08713**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175233003	**N-05201**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175233004	**N-03475**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175233005	**N-11295**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175233006	**N-11107**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175233007	**N-07781**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175233008	**N-08355**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70175233009	**N-13119**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O

PACE-MV = Pace Analytical Services - Melville
PASI-O = Pace Analytical Services - Ormond Beach

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Sample: N-14003 **Lab ID: 70175233001** Collected: 06/02/21 10:58 Received: 06/02/21 15:03 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.12**	ug/L	0.020		1	06/04/21 10:10	06/05/21 03:46	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	06/04/21 10:10	06/05/21 03:46		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/20/21 03:09	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/20/21 03:09	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/20/21 03:09	355-46-4	L3
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/20/21 03:09	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/20/21 03:09	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/20/21 03:09	335-67-1	
Surrogates									
13C2-PFDA (S)	99	%	70-130		1	06/08/21 11:28	06/20/21 03:09		
13C2-PFHxA (S)	78	%	70-130		1	06/08/21 11:28	06/20/21 03:09		
HFPO-DAS (S)	76	%	70-130		1	06/08/21 11:28	06/20/21 03:09		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Sample: N-08713 **Lab ID: 70175233002** Collected: 06/02/21 11:03 Received: 06/02/21 15:03 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.39**	ug/L	0.020		1	06/04/21 10:10	06/05/21 04:27	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	06/04/21 10:10	06/05/21 04:27		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/20/21 03:25	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/20/21 03:25	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/20/21 03:25	355-46-4	L3
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/20/21 03:25	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/20/21 03:25	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/20/21 03:25	335-67-1	
Surrogates									
13C2-PFDA (S)	106	%	70-130		1	06/08/21 11:28	06/20/21 03:25		
13C2-PFHxA (S)	79	%	70-130		1	06/08/21 11:28	06/20/21 03:25		
HFPO-DAS (S)	73	%	70-130		1	06/08/21 11:28	06/20/21 03:25		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Sample: N-05201 **Lab ID: 70175233003** Collected: 06/02/21 11:22 Received: 06/02/21 15:03 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**<0.020**	ug/L	0.020		1	06/04/21 10:10	06/05/21 04:47	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	06/04/21 10:10	06/05/21 04:47		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/20/21 03:40	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/20/21 03:40	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/20/21 03:40	355-46-4	L3
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/08/21 11:28	06/20/21 03:40	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/20/21 03:40	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	06/08/21 11:28	06/20/21 03:40	335-67-1	
Surrogates									
13C2-PFDA (S)	101	%	70-130		1	06/08/21 11:28	06/20/21 03:40		
13C2-PFHxA (S)	76	%	70-130		1	06/08/21 11:28	06/20/21 03:40		
HFPO-DAS (S)	76	%	70-130		1	06/08/21 11:28	06/20/21 03:40		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Sample: N-03475 **Lab ID: 70175233004** Collected: 06/02/21 12:21 Received: 06/02/21 15:03 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.066**	ug/L	0.020		1	06/04/21 10:10	06/05/21 05:08	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	06/04/21 10:10	06/05/21 05:08		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.0**	ng/L	2.0		1	06/08/21 11:28	06/20/21 03:56	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	06/08/21 11:28	06/20/21 03:56	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	06/08/21 11:28	06/20/21 03:56	355-46-4	L3
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	06/08/21 11:28	06/20/21 03:56	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	06/08/21 11:28	06/20/21 03:56	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	06/08/21 11:28	06/20/21 03:56	335-67-1	
Surrogates									
13C2-PFDA (S)	105	%	70-130		1	06/08/21 11:28	06/20/21 03:56		
13C2-PFHxA (S)	78	%	70-130		1	06/08/21 11:28	06/20/21 03:56		
HFPO-DAS (S)	80	%	70-130		1	06/08/21 11:28	06/20/21 03:56		

Pace Analytical Services, LLC
575 Broad Hollow Road
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(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Sample: N-11295 **Lab ID: 70175233005** Collected: 06/02/21 12:48 Received: 06/02/21 15:03 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.066**	ug/L	0.020		1	06/04/21 10:10	06/05/21 05:28	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	100	%	70-130		1	06/04/21 10:10	06/05/21 05:28		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/09/21 10:32	06/17/21 22:54	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	06/09/21 10:32	06/17/21 22:54	375-85-9	L1,L3
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	06/09/21 10:32	06/17/21 22:54	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/09/21 10:32	06/17/21 22:54	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/09/21 10:32	06/17/21 22:54	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	06/09/21 10:32	06/17/21 22:54	335-67-1	
Surrogates									
13C2-PFDA (S)	111	%	70-130		1	06/09/21 10:32	06/17/21 22:54		
13C2-PFHxA (S)	110	%	70-130		1	06/09/21 10:32	06/17/21 22:54		
HFPO-DAS (S)	115	%	70-130		1	06/09/21 10:32	06/17/21 22:54		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Sample: N-11107 **Lab ID: 70175233006** Collected: 06/02/21 12:58 Received: 06/02/21 15:03 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.14**	ug/L	0.020		1	06/04/21 10:10	06/05/21 05:49	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	98	%	70-130		1	06/04/21 10:10	06/05/21 05:49		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/09/21 10:32	06/17/21 23:13	375-73-5	
Perfluoroheptanoic acid	**2.7**	ng/L	1.9		1	06/09/21 10:32	06/17/21 23:13	375-85-9	L1
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	06/09/21 10:32	06/17/21 23:13	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/09/21 10:32	06/17/21 23:13	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/09/21 10:32	06/17/21 23:13	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	06/09/21 10:32	06/17/21 23:13	335-67-1	
Surrogates									
13C2-PFDA (S)	117	%	70-130		1	06/09/21 10:32	06/17/21 23:13		
13C2-PFHxA (S)	119	%	70-130		1	06/09/21 10:32	06/17/21 23:13		
HFPO-DAS (S)	112	%	70-130		1	06/09/21 10:32	06/17/21 23:13		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Sample: N-07781 **Lab ID: 70175233007** Collected: 06/02/21 13:18 Received: 06/02/21 15:03 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.57**	ug/L	0.020		1	06/04/21 10:10	06/05/21 06:09	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	99	%	70-130		1	06/04/21 10:10	06/05/21 06:09		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.0**	ng/L	2.0		1	06/09/21 10:32	06/17/21 23:32	375-73-5	
Perfluoroheptanoic acid	**2.4**	ng/L	2.0		1	06/09/21 10:32	06/17/21 23:32	375-85-9	L1
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	06/09/21 10:32	06/17/21 23:32	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	06/09/21 10:32	06/17/21 23:32	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	06/09/21 10:32	06/17/21 23:32	1763-23-1	
Perfluorooctanoic acid	**2.2**	ng/L	2.0	10	1	06/09/21 10:32	06/17/21 23:32	335-67-1	
Surrogates									
13C2-PFDA (S)	119	%	70-130		1	06/09/21 10:32	06/17/21 23:32		
13C2-PFHxA (S)	121	%	70-130		1	06/09/21 10:32	06/17/21 23:32		
HFPO-DAS (S)	105	%	70-130		1	06/09/21 10:32	06/17/21 23:32		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Sample: N-08355 **Lab ID: 70175233008** Collected: 06/02/21 13:26 Received: 06/02/21 15:03 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**9.3**	ug/L	0.10		5	06/04/21 10:10	06/08/21 16:05	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	98	%	70-130		5	06/04/21 10:10	06/08/21 16:05		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/09/21 10:32	06/17/21 23:51	375-73-5	
Perfluoroheptanoic acid	**7.3**	ng/L	1.9		1	06/09/21 10:32	06/17/21 23:51	375-85-9	L1
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	06/09/21 10:32	06/17/21 23:51	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/09/21 10:32	06/17/21 23:51	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/09/21 10:32	06/17/21 23:51	1763-23-1	
Perfluorooctanoic acid	**4.2**	ng/L	1.9	10	1	06/09/21 10:32	06/17/21 23:51	335-67-1	
Surrogates									
13C2-PFDA (S)	121	%	70-130		1	06/09/21 10:32	06/17/21 23:51		
13C2-PFHxA (S)	121	%	70-130		1	06/09/21 10:32	06/17/21 23:51		
HFPO-DAS (S)	116	%	70-130		1	06/09/21 10:32	06/17/21 23:51		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Sample: N-13119 **Lab ID: 70175233009** Collected: 06/02/21 13:42 Received: 06/02/21 15:03 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**3.2**	ug/L	0.020		1	06/04/21 10:10	06/05/21 06:51	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	99	%	70-130		1	06/04/21 10:10	06/05/21 06:51		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	06/09/21 10:32	06/18/21 00:10	375-73-5	
Perfluoroheptanoic acid	**2.0**	ng/L	1.9		1	06/09/21 10:32	06/18/21 00:10	375-85-9	L1
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	06/09/21 10:32	06/18/21 00:10	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	06/09/21 10:32	06/18/21 00:10	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	06/09/21 10:32	06/18/21 00:10	1763-23-1	
Perfluorooctanoic acid	**2.2**	ng/L	1.9	10	1	06/09/21 10:32	06/18/21 00:10	335-67-1	
Surrogates									
13C2-PFDA (S)	114	%	70-130		1	06/09/21 10:32	06/18/21 00:10		
13C2-PFHxA (S)	112	%	70-130		1	06/09/21 10:32	06/18/21 00:10		
HFPO-DAS (S)	103	%	70-130		1	06/09/21 10:32	06/18/21 00:10		

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

QC Batch: 211883
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70175233001, 70175233002, 70175233003, 70175233004, 70175233005, 70175233006, 70175233007, 70175233008, 70175233009

METHOD BLANK: 1061900
Matrix: Drinking Water
Associated Lab Samples: 70175233001, 70175233002, 70175233003, 70175233004, 70175233005, 70175233006, 70175233007, 70175233008, 70175233009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	06/05/21 01:43	
1,4-Dioxane-d8 (S)	%	96	70-130	06/05/21 01:43	

LABORATORY CONTROL SAMPLE: 1061901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	4	3.7	93	70-130	
1,4-Dioxane-d8 (S)	%			94	70-130	

MATRIX SPIKE SAMPLE: 1061902

Parameter	Units	70175538001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	4	3.7	92	70-130	
1,4-Dioxane-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1061903

Parameter	Units	70175233001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.12	0.13	8	20	
1,4-Dioxane-d8 (S)	%	95	96		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

QC Batch: 735775
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70175233001, 70175233002, 70175233003, 70175233004

METHOD BLANK: 4013858
Matrix: Water
Associated Lab Samples: 70175233001, 70175233002, 70175233003, 70175233004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	06/19/21 21:37	
Perfluoroheptanoic acid	ng/L	ND	2.0	06/19/21 21:37	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	06/19/21 21:37	
Perfluorononanoic acid	ng/L	ND	2.0	06/19/21 21:37	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	06/19/21 21:37	
Perfluorooctanoic acid	ng/L	ND	2.0	06/19/21 21:37	
13C2-PFDA (S)	%	108	70-130	06/19/21 21:37	
13C2-PFHxA (S)	%	87	70-130	06/19/21 21:37	
HFPO-DAS (S)	%	88	70-130	06/19/21 21:37	
NEtFOSAA-d5 (S)	%	108	70-130	06/19/21 21:37	

LABORATORY CONTROL SAMPLE: 4013859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	142	130	92	70-130	
Perfluoroheptanoic acid	ng/L	160	141	88	70-130	
Perfluorohexanesulfonic acid	ng/L	146	146	100	70-130	
Perfluorononanoic acid	ng/L	160	164	103	70-130	
Perfluorooctanesulfonic acid	ng/L	148	151	102	70-130	
Perfluorooctanoic acid	ng/L	160	162	101	70-130	
13C2-PFDA (S)	%			96	70-130	
13C2-PFHxA (S)	%			81	70-130	
HFPO-DAS (S)	%			73	70-130	
NEtFOSAA-d5 (S)	%			101	70-130	

LABORATORY CONTROL SAMPLE: 4013860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.8J	100	50-150	
Perfluoroheptanoic acid	ng/L	2	2.0	100	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	2.8	154	50-150	L1
Perfluorononanoic acid	ng/L	2	2.2	111	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	2.3	125	50-150	
Perfluorooctanoic acid	ng/L	2	2.1	106	50-150	
13C2-PFDA (S)	%			100	70-130	
13C2-PFHxA (S)	%			81	70-130	
HFPO-DAS (S)	%			83	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

LABORATORY CONTROL SAMPLE: 4013860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4013861 4013862

Parameter	Units	35638026001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Perfluorobutanesulfonic acid	ng/L	<0.64	6.8	6.4	7.5	7.7	102	113	70-130	3	30	
Perfluoroheptanoic acid	ng/L	<0.97	7.7	7.2	9.5	7.7	115	98	70-130	21	30	
Perfluorohexanesulfonic acid	ng/L	<0.71	7.1	6.6	15.0	8.6	212	130	70-130	54	30	M1,R1
Perfluorononanoic acid	ng/L	<1.9	7.7	7.2	5.9	8.1	74	109	70-130	32	30	R1
Perfluorooctanesulfonic acid	ng/L	1.7J	7.2	6.7	10.2	8.8	118	106	70-130	15	30	
Perfluorooctanoic acid	ng/L	<0.84	7.7	7.2	8.8	16.6	108	223	70-130	61	30	M1,R1
13C2-PFDA (S)	%						77	104	70-130			
13C2-PFHxA (S)	%						81	99	70-130			
HFPO-DAS (S)	%						67	83	70-130			S0
NEtFOSAA-d5 (S)	%						101	112	70-130			

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

QC Batch: 736095
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70175233005, 70175233006, 70175233007, 70175233008, 70175233009

METHOD BLANK: 4015631
Matrix: Water
Associated Lab Samples: 70175233005, 70175233006, 70175233007, 70175233008, 70175233009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	06/17/21 20:21	
Perfluoroheptanoic acid	ng/L	ND	2.0	06/17/21 20:21	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	06/17/21 20:21	
Perfluorononanoic acid	ng/L	ND	2.0	06/17/21 20:21	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	06/17/21 20:21	
Perfluorooctanoic acid	ng/L	ND	2.0	06/17/21 20:21	
13C2-PFDA (S)	%	347	70-130	06/17/21 20:21	S0
13C2-PFHxA (S)	%	344	70-130	06/17/21 20:21	S0
HFPO-DAS (S)	%	344	70-130	06/17/21 20:21	S0
NEtFOSAA-d5 (S)	%	398	70-130	06/17/21 20:21	S0

LABORATORY CONTROL SAMPLE: 4015632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	8.2	116	70-130	
Perfluoroheptanoic acid	ng/L	8	11.1	138	70-130	L1
Perfluorohexanesulfonic acid	ng/L	7.3	8.9	122	70-130	
Perfluorononanoic acid	ng/L	8	10.2	127	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	9.2	125	70-130	
Perfluorooctanoic acid	ng/L	8	9.5	119	70-130	
13C2-PFDA (S)	%			330	70-130	S0
13C2-PFHxA (S)	%			335	70-130	S0
HFPO-DAS (S)	%			329	70-130	S0
NEtFOSAA-d5 (S)	%			381	70-130	S0

LABORATORY CONTROL SAMPLE: 4015633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	2.2	122	50-150	
Perfluoroheptanoic acid	ng/L	2	2.9	146	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	2.0	110	50-150	
Perfluorononanoic acid	ng/L	2	2.6	132	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	2.5	134	50-150	
Perfluorooctanoic acid	ng/L	2	2.5	126	50-150	
13C2-PFDA (S)	%			350	70-130	S0
13C2-PFHxA (S)	%			336	70-130	S0
HFPO-DAS (S)	%			344	70-130	S0

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

LABORATORY CONTROL SAMPLE: 4015633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			397	70-130	S0

MATRIX SPIKE SAMPLE: 4015634

Parameter	Units	70175706002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.7	125	137	110	70-130	
Perfluoroheptanoic acid	ng/L	<1.7	141	<1.8	0	70-130	M1
Perfluorohexanesulfonic acid	ng/L	<1.7	129	145	113	70-130	
Perfluorononanoic acid	ng/L	<1.7	141	189	134	70-130	M1
Perfluorooctanesulfonic acid	ng/L	<1.7	131	137	105	70-130	
Perfluorooctanoic acid	ng/L	<1.7	141	146	104	70-130	
13C2-PFDA (S)	%				113	70-130	
13C2-PFHxA (S)	%				108	70-130	
HFPO-DAS (S)	%				113	70-130	
NEtFOSAA-d5 (S)	%				104	70-130	

SAMPLE DUPLICATE: 4015635

Parameter	Units	70175706001 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	<1.7		30	
Perfluoroheptanoic acid	ng/L	6.4	6.1	4	30	
Perfluorohexanesulfonic acid	ng/L	<1.8	<1.7		30	
Perfluorononanoic acid	ng/L	2.4	2.4	1	30	
Perfluorooctanesulfonic acid	ng/L	<1.8	<1.7		30	
Perfluorooctanoic acid	ng/L	9.3	9.2	2	30	
13C2-PFDA (S)	%	116	113			
13C2-PFHxA (S)	%	114	115			
HFPO-DAS (S)	%	117	114			
NEtFOSAA-d5 (S)	%	121	120			

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QUALIFIERS

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 70175233

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

SAMPLE QUALIFIERS

Sample: 70175233001

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

Sample: 70175233004

[1] RUN TO WASTE

ANALYTE QUALIFIERS

L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOX/PFAS 6/2
Pace Project No.: 70175233

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70175233001	**N-14003**	EPA 522	211883	EPA 522	212007
70175233002	**N-08713**	EPA 522	211883	EPA 522	212007
70175233003	**N-05201**	EPA 522	211883	EPA 522	212007
70175233004	**N-03475**	EPA 522	211883	EPA 522	212007
70175233005	**N-11295**	EPA 522	211883	EPA 522	212007
70175233006	**N-11107**	EPA 522	211883	EPA 522	212007
70175233007	**N-07781**	EPA 522	211883	EPA 522	212007
70175233008	**N-08355**	EPA 522	211883	EPA 522	212007
70175233009	**N-13119**	EPA 522	211883	EPA 522	212007
70175233001	**N-14003**	EPA 537.1	735775	EPA 537.1	738453
70175233002	**N-08713**	EPA 537.1	735775	EPA 537.1	738453
70175233003	**N-05201**	EPA 537.1	735775	EPA 537.1	738453
70175233004	**N-03475**	EPA 537.1	735775	EPA 537.1	738453
70175233005	**N-11295**	EPA 537.1	736095	EPA 537.1	738646
70175233006	**N-11107**	EPA 537.1	736095	EPA 537.1	738646
70175233007	**N-07781**	EPA 537.1	736095	EPA 537.1	738646
70175233008	**N-08355**	EPA 537.1	736095	EPA 537.1	738646
70175233009	**N-13119**	EPA 537.1	736095	EPA 537.1	738646

WO# : 70175233

70175233

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 6-2-21

Collected By: [signature] (B)

Accepted By: [signature]

Cooler Temp: 12.8 °C 6/2/21 1503

☐ WELL OFF LINE _____

☐ WELL RUN TO SYSTEM _____

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water Dist

Address: 125 Convent Rd
S. Jossel N.Y 11791

Phone #: (516) 921-8280

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location		Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
6-2-21 10:58	PW	well #28 N-14003	Run to System	RW		RO	Ø		1,4-Dioxane / PFOS/PFOA	
6-2-21 11:03	PW	well #27 N-08713	Run to System	RW		RO	Ø		1,4-Dioxane, PFOS/PFOA	
6-2-21 11:22	PW	well #11 N-05201	Run to System	RW		RO	Ø		" "	
6-2-21 12:21	PW	well #7 N-03475	Run to waste	RW		RO	Ø		" "	
6-2-21 12:48	PW	well #30 N-11295	Run to System	RW		RO	Ø		" "	
6-2-21 12:58	PW	well #29 N-11107	Run to System	RW		RO	Ø		" "	
6-2-21 13:18	PW	well #22 N-07781	Run to System	RW		RO	Ø		" "	
6-2-21 13:26	PW	well #25 N-08355	Run to System	RW		RO	Ø		" "	
6-2-21 13:42	PW	well #26 N-13119	Run to System	RW		RO	Ø		1,4-Dioxane, PFOS/PFOA	

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70175233
PM: JSA **Due Date: 06/14/21**
CLIENT: JWD

Client Name: Jericho WD

Project

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

Tracking #:

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 12.8 Cooler Temperature Corrected(°C): 12.8

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet (Blue) None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: MS 6/2/21

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID, Matrix: SL (WT) OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Field Data Required? Y / N

Date/Time:

Client Notification/ Resolution:

Person Contacted:

Comments/ Resolution:

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