

October 10, 2022

Randy Evans
Wellington Operating Company
328 South Overland Trail
Fort Collins, CO 80521

RE: Project: 767702 PFAS
Pace Project No.: 10624880

Dear Randy Evans:

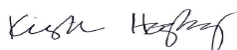
Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 - Minneapolis

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

Sincerely,



Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 767702 PFAS

Pace Project No.: 10624880

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01*

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563*

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 767702 PFAS

Pace Project No.: 10624880

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10624880001	Outfall 001A#767702	Water	09/08/22 12:00	09/09/22 13:52

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 767702 PFAS

Pace Project No.: 10624880

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10624880001	Outfall 001A#767702	ENV-SOP-MIN4-D178	NBH	50	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 767702 PFAS

Pace Project No.: 10624880

Sample: Outfall 001A#767702		Lab ID: 10624880001		Collected: 09/08/22 12:00		Received: 09/09/22 13:52		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
PFAS ID NPW	Analytical Method: ENV-SOP-MIN4-D178 Preparation Method: ENV-SOP-MIN4-D178								
	Pace Analytical Services - Minneapolis								
4:2 FTS	ND	ng/L	1.9	1	09/23/22 15:00	10/05/22 09:04	757124-72-4		
6:2 FTS	ND	ng/L	1.9	1	09/23/22 15:00	10/05/22 09:04	27619-97-2		
8:2 FTS	ND	ng/L	1.9	1	09/23/22 15:00	10/05/22 09:04	39108-34-4		
HFPO-DA	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	13252-13-6		
NEtFOSAA	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	2991-50-6		
NMeFOSAA	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	2355-31-9		
Perfluorobutanesulfonic acid	ND	ng/L	1.8	1	09/23/22 15:00	10/05/22 09:04	375-73-5		
Perfluorodecanoic acid	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	335-76-2		
Perfluorohexanoic acid	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	307-24-4		
PFBA	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	375-22-4		
PFDS	ND	ng/L	1.9	1	09/23/22 15:00	10/05/22 09:04	335-77-3		
PFHpS	ND	ng/L	1.9	1	09/23/22 15:00	10/05/22 09:04	375-92-8		
PFNS	ND	ng/L	1.9	1	09/23/22 15:00	10/05/22 09:04	68259-12-1		
PFOSA	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	754-91-6		
PFPeA	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	2706-90-3		
PFPeS	ND	ng/L	1.9	1	09/23/22 15:00	10/05/22 09:04	2706-91-4		
Perfluorododecanoic acid	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	307-55-1		
Perfluoroheptanoic acid	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	375-85-9		
Perfluorohexanesulfonic acid	ND	ng/L	1.8	1	09/23/22 15:00	10/05/22 09:04	355-46-4		
Perfluorononanoic acid	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	375-95-1		
Perfluorooctanesulfonic acid	ND	ng/L	1.9	1	09/23/22 15:00	10/05/22 09:04	1763-23-1		
Perfluorooctanoic acid	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	335-67-1		
Perfluorotetradecanoic acid	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	376-06-7		
Perfluorotridecanoic acid	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	72629-94-8		
Perfluoroundecanoic acid	ND	ng/L	2.0	1	09/23/22 15:00	10/05/22 09:04	2058-94-8		
Surrogates									
13C26:2FTS (S)	92	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	27619-97-2		
13C28:2FTS (S)	74	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	39108-34-4		
13C24:2FTS (S)	89	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	757124-72-4		
13C2-PFDoA (S)	81	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	307-55-1		
13C2PFHxDA (S)	87	%.	50-150	1	09/23/22 15:00	10/05/22 09:04			
13C2-PFTA (S)	87	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	376-06-7		
13C3HFPO-DA (S)	105	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	13252-13-6		
13C3-PFBS (S)	105	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	375-73-5		
13C3-PFHxS (S)	99	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	355-46-4		
13C4-PFBA (S)	130	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	375-22-4		
13C4-PFHpA (S)	107	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	375-85-9		
13C5-PFHxA (S)	107	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	307-24-4		
13C5-PFPeA (S)	109	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	2706-90-3		
13C6-PFDA (S)	91	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	335-76-2		
13C7-PFUdA (S)	81	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	2058-94-8		
13C8-PFOA (S)	98	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	335-67-1		
13C8-PFOS (S)	91	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	1763-23-1		
13C8-PFOSA (S)	89	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	754-91-6		
13C9-PFNA (S)	92	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	375-95-1		
d3-MeFOSAA (S)	71	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	2355-31-9		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 767702 PFAS

Pace Project No.: 10624880

Sample: Outfall 001A#767702		Lab ID: 10624880001		Collected: 09/08/22 12:00		Received: 09/09/22 13:52		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
PFAS ID NPW		Analytical Method: ENV-SOP-MIN4-D178 Preparation Method: ENV-SOP-MIN4-D178 Pace Analytical Services - Minneapolis							
Surrogates									
d3-NMeFOSA (S)	47	%.	10-150	1	09/23/22 15:00	10/05/22 09:04	31506-32-8		
d5-EtFOSAA (S)	73	%.	50-150	1	09/23/22 15:00	10/05/22 09:04	2991-50-6		
d5-NEtFOSA (S)	40	%.	10-150	1	09/23/22 15:00	10/05/22 09:04	4151-50-2		
d7-NMeFOSE (S)	73	%.	10-150	1	09/23/22 15:00	10/05/22 09:04	24448-09-7		
d9-NEtFOSE (S)	70	%.	10-150	1	09/23/22 15:00	10/05/22 09:04	1691-99-2		

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QUALITY CONTROL DATA

Project: 767702 PFAS

Pace Project No.: 10624880

QC Batch: 841858

Analysis Method: ENV-SOP-MIN4-D178

QC Batch Method: ENV-SOP-MIN4-D178

Analysis Description: PFAS Compounds, Water

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10624880001

METHOD BLANK: 4455533

Matrix: Water

Associated Lab Samples: 10624880001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4:2 FTS	ng/L	ND	1.8	09/27/22 13:13	
6:2 FTS	ng/L	ND	1.8	09/27/22 13:13	
8:2 FTS	ng/L	ND	1.8	09/27/22 13:13	
HFPO-DA	ng/L	ND	1.9	09/27/22 13:13	
NEtFOSAA	ng/L	ND	1.9	09/27/22 13:13	
NMeFOSAA	ng/L	ND	1.9	09/27/22 13:13	
Perfluorobutanesulfonic acid	ng/L	ND	1.7	09/27/22 13:13	
Perfluorodecanoic acid	ng/L	ND	1.9	09/27/22 13:13	
Perfluorododecanoic acid	ng/L	ND	1.9	09/27/22 13:13	
Perfluoroheptanoic acid	ng/L	ND	1.9	09/27/22 13:13	
Perfluorohexanesulfonic acid	ng/L	ND	1.7	09/27/22 13:13	
Perfluorohexanoic acid	ng/L	ND	1.9	09/27/22 13:13	
Perfluorononanoic acid	ng/L	ND	1.9	09/27/22 13:13	
Perfluorooctanesulfonic acid	ng/L	ND	1.8	09/27/22 13:13	
Perfluorooctanoic acid	ng/L	ND	1.9	09/27/22 13:13	
Perfluorotetradecanoic acid	ng/L	ND	1.9	09/27/22 13:13	
Perfluorotridecanoic acid	ng/L	ND	1.9	09/27/22 13:13	
Perfluoroundecanoic acid	ng/L	ND	1.9	09/27/22 13:13	
PFBA	ng/L	ND	1.9	09/27/22 13:13	
PFDS	ng/L	ND	1.8	09/27/22 13:13	
PFHpS	ng/L	ND	1.8	09/27/22 13:13	
PFNS	ng/L	ND	1.8	09/27/22 13:13	
PFOSA	ng/L	ND	1.9	09/27/22 13:13	
PFPeA	ng/L	ND	1.9	09/27/22 13:13	
PFPeS	ng/L	ND	1.8	09/27/22 13:13	
13C2-PFDoA (S)	%	112	50-150	09/27/22 13:13	
13C2-PFTA (S)	%	102	50-150	09/27/22 13:13	
13C24:2FTS (S)	%	115	50-150	09/27/22 13:13	
13C26:2FTS (S)	%	114	50-150	09/27/22 13:13	
13C28:2FTS (S)	%	102	50-150	09/27/22 13:13	
13C2PFHxDA (S)	%	107	50-150	09/27/22 13:13	
13C3-PFBS (S)	%	107	50-150	09/27/22 13:13	
13C3-PFHxS (S)	%	109	50-150	09/27/22 13:13	
13C3HFPO-DA (S)	%	104	50-150	09/27/22 13:13	
13C4-PFBA (S)	%	108	50-150	09/27/22 13:13	
13C4-PFHpA (S)	%	113	50-150	09/27/22 13:13	
13C5-PFHxA (S)	%	120	50-150	09/27/22 13:13	
13C5-PFPeA (S)	%	111	50-150	09/27/22 13:13	
13C6-PFDA (S)	%	118	50-150	09/27/22 13:13	
13C7-PFUdA (S)	%	110	50-150	09/27/22 13:13	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 767702 PFAS

Pace Project No.: 10624880

METHOD BLANK: 4455533

Matrix: Water

Associated Lab Samples: 10624880001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C8-PFOA (S)	%.	123	50-150	09/27/22 13:13	
13C8-PFOS (S)	%.	109	50-150	09/27/22 13:13	
13C8-PFOSA (S)	%.	97	50-150	09/27/22 13:13	
13C9-PFNA (S)	%.	109	50-150	09/27/22 13:13	
d3-MeFOSAA (S)	%.	72	50-150	09/27/22 13:13	
d3-NMeFOSA (S)	%.	52	10-150	09/27/22 13:13	
d5-EtFOSAA (S)	%.	77	50-150	09/27/22 13:13	
d5-NEtFOSA (S)	%.	69	10-150	09/27/22 13:13	
d7-NMeFOSE (S)	%.	124	10-150	09/27/22 13:13	
d9-NEtFOSE (S)	%.	124	10-150	09/27/22 13:13	

LABORATORY CONTROL SAMPLE & LCSD: 4455534

4456779

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
4:2 FTS	ng/L	3.5	3.5	3.2	98	88	63-143	7	30	
6:2 FTS	ng/L	3.6	3.6	3.8	101	101	64-140	4	30	
8:2 FTS	ng/L	3.6	4.4	3.4	122	90	67-138	26	30	
HFPO-DA	ng/L	3.8	4.0	3.9	105	99	70-140	2	30	
NEtFOSAA	ng/L	3.8	4.0	3.6	105	92	61-135	10	30	
NMeFOSAA	ng/L	3.8	3.8	2.9	100	74	65-136	25	30	
Perfluorobutanesulfonic acid	ng/L	3.3	3.4	3.2	101	93	72-130	4	30	
Perfluorodecanoic acid	ng/L	3.8	3.6	3.8	95	97	71-129	6	30	
Perfluorododecanoic acid	ng/L	3.8	3.3	3.6	88	93	72-134	9	30	
Perfluoroheptanoic acid	ng/L	3.8	4.0	4.3	106	110	72-130	7	30	
Perfluorohexanesulfonic acid	ng/L	3.5	3.7	3.6	106	99	68-131	3	30	
Perfluorohexanoic acid	ng/L	3.8	4.1	4.1	110	104	72-129	2	30	
Perfluorononanoic acid	ng/L	3.8	4.5	4.6	120	118	69-130	2	30	
Perfluorooctanesulfonic acid	ng/L	3.5	3.6	3.7	103	101	65-140	2	30	
Perfluorooctanoic acid	ng/L	3.8	3.9	4.4	102	113	71-133	14	30	
Perfluorotetradecanoic acid	ng/L	3.8	3.9	3.5	103	90	71-132	10	30	
Perfluorotridecanoic acid	ng/L	3.8	3.6	3.9	96	98	65-144	6	30	
Perfluoroundecanoic acid	ng/L	3.8	4.6	3.5	122	90	69-133	26	30	
PFBA	ng/L	3.8	4.2	4.0	111	102	73-129	5	30	
PFDS	ng/L	3.6	3.7	3.2	101	84	53-142	14	30	
PFHpS	ng/L	3.6	3.6	3.7	99	98	69-134	3	30	
PFNS	ng/L	3.6	4.0	3.8	110	101	69-127	5	30	
PFOSA	ng/L	3.8	3.8	3.7	101	94	67-137	4	30	
PFPeA	ng/L	3.8	4.1	3.9	108	101	72-129	3	30	
PFPeS	ng/L	3.6	3.9	3.8	111	103	71-127	4	30	
13C2-PFDoA (S)	%.				131	112	50-150			
13C2-PFTA (S)	%.				124	114	50-150			
13C24:2FTS (S)	%.				118	120	50-150			
13C26:2FTS (S)	%.				113	116	50-150			
13C28:2FTS (S)	%.				103	107	50-150			

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QUALITY CONTROL DATA

Project: 767702 PFAS

Pace Project No.: 10624880

LABORATORY CONTROL SAMPLE & LCSD: 4455534			4456779							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
13C2PFHxDA (S)	%				116	113	50-150			
13C3-PFBS (S)	%				115	115	50-150			
13C3-PFHxS (S)	%				113	109	50-150			
13C3HFPO-DA (S)	%				119	118	50-150			
13C4-PFBA (S)	%				112	111	50-150			
13C4-PFHpA (S)	%				122	117	50-150			
13C5-PFHxA (S)	%				121	116	50-150			
13C5-PFPeA (S)	%				112	110	50-150			
13C6-PFDA (S)	%				132	126	50-150			
13C7-PFUdA (S)	%				113	118	50-150			
13C8-PFOA (S)	%				129	121	50-150			
13C8-PFOS (S)	%				106	109	50-150			
13C8-PFOSA (S)	%				103	101	50-150			
13C9-PFNA (S)	%				114	111	50-150			
d3-MeFOSAA (S)	%				109	98	50-150			
d3-NMeFOSA (S)	%				55	43	10-150			
d5-EtFOSAA (S)	%				98	93	50-150			
d5-NEtFOSA (S)	%				73	57	10-150			
d7-NMeFOSE (S)	%				124	124	10-150			
d9-NEtFOSE (S)	%				129	125	10-150			

MATRIX SPIKE SAMPLE: 4456877									
Parameter	Units	10623757005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers		
4:2 FTS	ng/L	ND	3.6	3.2	88	70-130			
6:2 FTS	ng/L	ND	3.7	4.0	103	70-130			
8:2 FTS	ng/L	ND	3.7	3.7	101	70-130			
HFPO-DA	ng/L	ND	3.9	3.8	97	70-130			
NEtFOSAA	ng/L	ND	3.9	2.7	71	70-130			
NMeFOSAA	ng/L	ND	3.9	3.3	86	70-130			
Perfluorobutanesulfonic acid	ng/L	ND	3.4	3.5	101	70-130			
Perfluorodecanoic acid	ng/L	ND	3.9	3.7	95	70-130			
Perfluorododecanoic acid	ng/L	ND	3.9	3.4	88	70-130			
Perfluoroheptanoic acid	ng/L	ND	3.9	4.2	102	70-130			
Perfluorohexanesulfonic acid	ng/L	ND	3.5	3.3	92	70-130			
Perfluorohexanoic acid	ng/L	ND	3.9	5.3	96	70-130			
Perfluorononanoic acid	ng/L	ND	3.9	3.8	96	70-130			
Perfluorooctanesulfonic acid	ng/L	ND	3.6	3.3	90	70-130			
Perfluorooctanoic acid	ng/L	2.1	3.9	6.3	108	70-130			
Perfluorotetradecanoic acid	ng/L	ND	3.9	4.0	105	70-130			
Perfluorotridecanoic acid	ng/L	ND	3.9	3.4	88	70-130			
Perfluoroundecanoic acid	ng/L	ND	3.9	3.2	83	70-130			
PFBA	ng/L	7.7	3.9	11.6	101	70-130			
PFDS	ng/L	ND	3.7	2.9	78	70-130			
PFHpS	ng/L	ND	3.7	3.6	98	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 767702 PFAS

Pace Project No.: 10624880

MATRIX SPIKE SAMPLE: 4456877

Parameter	Units	10623757005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PFNS	ng/L	ND	3.7	3.1	85	70-130	
PFOSA	ng/L	ND	3.9	3.6	93	70-130	
PFPeA	ng/L	3.6	3.9	7.3	96	70-130	
PFPeS	ng/L	ND	3.6	3.7	103	70-130	
13C2-PFDoA (S)	%				115	50-150	
13C2-PFTA (S)	%				103	50-150	
13C24:2FTS (S)	%				152	50-150	S0
13C26:2FTS (S)	%				116	50-150	
13C28:2FTS (S)	%				99	50-150	
13C2PFHxDA (S)	%				107	50-150	
13C3-PFBS (S)	%				117	50-150	
13C3-PFHxS (S)	%				118	50-150	
13C3HFPO-DA (S)	%				118	50-150	
13C4-PFBA (S)	%				134	50-150	
13C4-PFHpA (S)	%				125	50-150	
13C5-PFHxA (S)	%				130	50-150	
13C5-PFPeA (S)	%				125	50-150	
13C6-PFDA (S)	%				131	50-150	
13C7-PFUdA (S)	%				120	50-150	
13C8-PFOA (S)	%				119	50-150	
13C8-PFOS (S)	%				108	50-150	
13C8-PFOSA (S)	%				92	50-150	
13C9-PFNA (S)	%				118	50-150	
d3-MeFOSAA (S)	%				95	50-150	
d3-NMeFOSA (S)	%				53	10-150	
d5-EtFOSAA (S)	%				96	50-150	
d5-NEtFOSA (S)	%				69	10-150	
d7-NMeFOSE (S)	%				109	10-150	
d9-NEtFOSE (S)	%				121	10-150	

SAMPLE DUPLICATE: 4458248

Parameter	Units	10623757006 Result	Dup Result	RPD	Max RPD	Qualifiers
4:2 FTS	ng/L	ND	ND		30	
6:2 FTS	ng/L	ND	ND		30	
8:2 FTS	ng/L	ND	ND		30	
HFPO-DA	ng/L	ND	ND		30	
NEtFOSAA	ng/L	ND	ND		30	
NMeFOSAA	ng/L	ND	ND		30	
Perfluorobutanesulfonic acid	ng/L	2.9	2.9	1	30	
Perfluorodecanoic acid	ng/L	ND	ND		30	
Perfluorododecanoic acid	ng/L	ND	ND		30	
Perfluoroheptanoic acid	ng/L	5.3	5.4	2	30	
Perfluorohexanesulfonic acid	ng/L	9.7	9.9	2	30	
Perfluorohexanoic acid	ng/L	5.0	4.8	6	30	

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QUALITY CONTROL DATA

Project: 767702 PFAS

Pace Project No.: 10624880

SAMPLE DUPLICATE: 4458248

Parameter	Units	10623757006 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorononanoic acid	ng/L	ND	.93J		30	
Perfluorooctanesulfonic acid	ng/L	19.0	18.1	5	30	
Perfluorooctanoic acid	ng/L	197	182	8	30	
Perfluorotetradecanoic acid	ng/L	ND	ND		30	
Perfluorotridecanoic acid	ng/L	ND	ND		30	
Perfluoroundecanoic acid	ng/L	ND	ND		30	
PFBA	ng/L	7.8	7.9	1	30	
PFDS	ng/L	ND	ND		30	
PFHpS	ng/L	ND	ND		30	
PFNS	ng/L	ND	ND		30	
PFOSA	ng/L	ND	ND		30	
PFPeA	ng/L	4.2	4.1	2	30	
PFPeS	ng/L	1.9	ND		30	
13C2-PFDoA (S)	%	122	126			
13C2-PFTA (S)	%	114	105			
13C24:2FTS (S)	%	149	153			S0
13C26:2FTS (S)	%	126	129			
13C28:2FTS (S)	%	103	105			
13C2PFHxDA (S)	%	112	108			
13C3-PFBS (S)	%	120	132			
13C3-PFHxS (S)	%	114	120			
13C3HFPO-DA (S)	%	125	131			
13C4-PFBA (S)	%	137	145			
13C4-PFHpA (S)	%	124	133			
13C5-PFHxA (S)	%	126	134			
13C5-PFPeA (S)	%	124	129			
13C6-PFDA (S)	%	133	134			
13C7-PFUdA (S)	%	116	123			
13C8-PFOA (S)	%	114	126			
13C8-PFOS (S)	%	106	118			
13C8-PFOSA (S)	%	88	92			
13C9-PFNA (S)	%	130	136			
d3-MeFOSAA (S)	%	100	105			
d3-NMeFOSA (S)	%	42	29			
d5-EtFOSAA (S)	%	91	102			
d5-NEtFOSA (S)	%	51	30			
d7-NMeFOSE (S)	%	99	87			
d9-NEtFOSE (S)	%	101	88			

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QUALIFIERS

Project: 767702 PFAS

Pace Project No.: 10624880

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 767702 PFAS

Pace Project No.: 10624880

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10624880001	Outfall 001A#767702	ENV-SOP-MIN4-D178	841858	ENV-SOP-MIN4-D178	843292

REPORT OF LABORATORY ANALYSIS

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Effective Date: 8/26/2022

Sample Condition
Upon Receipt

Client Name:

Wellington Operating Co.

Project #:

WO#: 10624880

PM: KNH

Due Date: 10/14/22

CLIENT: Wellington

Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client
☐ Pace ☐ Speedee ☐ CommercialTracking Number: S 40518227726 ☐ See Exceptions
ENV-FRM-MIN4-0142Custody Seal on Cooler/Box Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ NoBiological Tissue Frozen? ☐ Yes ☐ No ☒ N/APacking Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ OtherTemp Blank? ☒ Yes ☐ NoThermometer: ☒ T1 (0461) ☐ T2 (1336) ☐ T3 (0459) ☐ T4 (0254) ☐ T5 (0178)
☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ 01339252/1710Type of Ice: ☐ Wet ☐ Blue ☐ Dry ☐ None
☒ MeltedDid Samples Originate in West Virginia? ☐ Yes ☒ NoWere All Container Temps Taken? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6 °C

Cooler temp Read w/Temp Blank: 6.4 °CAverage Corrected Temp
(no temp blank only): _____ °CCorrection Factor: 10.2Cooler Temp Corrected w/temp blank: 6.6 °C☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 ContainerUSDA Regulated Soil: ☒ N/A, water sample (other: _____)Date/Initials of Person Examining Contents: KB 9/9/22Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4. If fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 <input type="checkbox"/> No
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E.coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrom <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Sufficient Sample Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. If no, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Is sufficient information available to reconcile the samples to the COC? Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	12. Sample # <u>001-002</u> <input type="checkbox"/> NaOH <input checked="" type="checkbox"/> HNO3 <u>1/1</u> <input type="checkbox"/> H2SO4 <input type="checkbox"/> Zinc Acetate
All containers needing acid/base preservation have been checked? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Positive for Residual Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
All containers needing preservation are found to be in compliance with EPA recommendation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	pH Paper Lot # Residual Chlorine <u>20742</u> 0-6 Roll 0-6 Strip 0-14 Strip
(HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	13.
Exceptions: <u>VOA</u> , Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	14. <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Headspace in Methyl Mercury Container? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Extra labels present on soil VOA or WIDRO containers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Pace Trip Blank Lot # (if purchased): _____
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
3 Trip Blanks Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ NoPerson Contacted: Randy Evans (Email)Date/Time: 9/12/2022Comments/Resolution: Samples received outside the recommended temperature range - proceed with analysis.Project Manager Review: Kirsten HoyerbergDate: 9/12/2022

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: KBLine: 2