



September 23, 2021

Rich Ellman Full Service Organics Management LLC 3631 County Road C Oconto Falls, WI 54154

RE: Project: NEWBERRY, MI
Pace Project No.: 40232130

Dear Rich Ellman:

Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 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:

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

Sincerely,

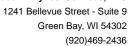
Christopher Hyska christopher.hyska@pacelabs.com (920)469-2436

Chuskpher Hyska

Project Manager

Enclosures







SAMPLE SUMMARY

Project: NEWBERRY, MI
Pace Project No.: 40232130

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40232130001	NEWBERRY BIOSOLIDS	Solid	08/23/21 12:00	08/23/21 14:30

REPORT OF LABORATORY ANALYSIS

(Please Print Clearly) UPPER MIDWEST REGION COC No. 4050450 MN: 612-607-1700 WI: 920-469-2436 Company Name: FSO Management Pace Analytical® Branch/Location: www.pacelabs.com **Project Contact:** Rich Ellman Quote #: **CHAIN OF CUSTODY** Phone: 920-373-6704 Mail To Contact: Rich Ellman **Project Number:** FSO Management LLC Mail To Company: H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other Project Name: Newberry, MI Mail To Address: 3631 County Rd C Oconto Falls, WI 54154 FILTERED? Project State: (YES/NO) **PRESERVATION** Pick Rich Ellman Sampled By (Print): **Invoice To Contact:** Α (CODE)* Sampled By (Sign): Invoice To Company: FSO Management LLC. 28 Regulatory PO #: MI EGLE EGLE : Invoice To Address: 3631 County Rd C Program: Oconto Falls, WI 54154 **Data Package Options Matrix Codes** MS/MSD (billable) A = Air W = Water 537- MI On your sample DW = Drinking Water R = Riota EPA Level III Analyses 920-373-6704 Invoice To Phone: (billable) C = Charcoal GW = Ground Water 0 = 0il SW = Surface Water ■ EPA Level IV NOT needed on WW = Waste Water S = Soil PFAS (LAB COMMENTS Profile # your sample CLIENT WP = Wipe COLLECTION PACE LAB# 6784 **CLIENT FIELD ID COMMENTS** (Lab Use Only) MATRIX DATE TIME **Newberry Biosolids** Х SL Rush Turnaround Time Requested - Prelims Received By: Relinguished By: Date/Time: -23.9 (Rush TAT subject to approval/surcharge) Date Needed: Relinguished By: Date/Time: Transmit Prelim Rush Results by (complete what you want): °C Receipt Temp = Email #1: rellman@fsomanagement.com Relinquished By: Date/Time: Date/Time: Received By: Email #2: Sample Receipt pH OK / Adjusted Telephone: Relinguished By: Date/Time: Received By: Date/Time: Cooler Custody Seal Fax: Present Not Present Samples on HOLD are subject to Relinquished By: Date/Time: Received By: Date/Time: Intact / Not Intact special pricing and release of liability

Version 6.0 06/14/06

Sample Preservation Receipt Form
Project # 4323 Client Name: FSO Management

All containers needing preservation have been checked and noted below: □Yes □No →A Initial when Date/ completed: Time: Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted): VaOH+Zn Act pH ≥9 Vials (>6mm) after adjusted Glass **Plastic** Vials Jars General 22 VaOH pH ≥12 Volume 12SO4 pH 핍 (mL) WGFU WPFU AG2S /G9M BG10 AG1H AG40 AG5U BG3U BP1U **BP3B BP3N** VG9A VG9U VG9H /G9D JGFU AG10 **BP3U** BP3S DG9T JG9U ZPLC **SP5T** Pace S S S ٥, Lab # マ 001 2.5 / 5 / 10 002 2.5/5/10 003 2.5 / 5 / 10 004 2.5/5/10 005 2.5 / 5 / 10 006 2.5/5/10 007 2.5 / 5 / 10 008 2.5/5/10 009 2.5 / 5 / 10 010 2.5/5/10 011 2.5 / 5 / 10 012 2.5/5/10 013 2.5 / 5 / 10 014 2.5/5/10 015 2.5 / 5 / 10 016 2.5/5/10 017 2 2.5 / 5 / 10 018 2.5/5/10 019 2.5 / 5 / 10 020 2.5/5/10 Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: Headspace in VOA Vials (>6mm) : □Yes □No 📈/A *If yes look in headspace column AG1U 1 liter amber glass BP1U 1 liter plastic unpres VG9A 40 mL clear ascorbic **JGFU** 4 oz amber jar unpres BG1U 1 liter clear glass BP3U 250 mL plastic unpres DG9T JG9U l40 mL amber Na Thio 9 oz amber jar unpres AG1H 1 liter amber glass HCL BP3B 250 mL plastic NaOH VG9U 40 mL clear vial unpres **WGFU** 4 oz clear jar unpres AG4S 125 mL amber glass H2SO4 BP3N 250 mL plastic HNO3 VG9H 40 mL clear vial HCL **WPFU** 4 oz plastic jar unpres AG4U 120 mL amber glass unpres BP3S 250 mL plastic H2SO4 VG9M 40 mL clear vial MeOH SP5T 120 mL plastic Na Thiosulfate AG5U 100 mL amber glass unpres **ZPLC** VG9D 40 mL clear vial DI ziploc bag AG2S 500 mL amber glass H2SO4 GN

BG3U 250 mL clear glass unpres

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

Author:

Document Revised: 26Mar2020

Document No.:

ENV-FRM-GBAY-0014-Rev.00

Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: SO Monocom Courier: CS Logistics Fed Ex Speed Client Pace Other: Tracking #: Custody Seal on Cooler/Box Present: Syes Custody Seal on Samples Present: Syes Packing Material: Bubble Wrap Bub Thermometer Used SR - 15 Cooler Temperature Uncorr: Syes Temp Blank Present: Types Syes The sample of th	no Seal ble Bags	s intact:	yes no	40232130 Samples of	40232130
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on □	ny loo				Labeled By Initial SKI
Chain of Custody Present:	Ż%ęs □No	□n/a	1	• · · · · · · · · · · · · · · · · · · ·	Labeled by Illitials
Chain of Custody Filled Out:	XYes □No				and Miles Address
Chain of Custody Relinquished:	X)Yes □No				
Sampler Name & Signature on COC:	XiYes □No				
Samples Arrived within Hold Time:	XYes □No		5.		
- VOA Samples frozen upon receipt	□Yes □No		Date/Time:		
Short Hold Time Analysis (<72hr):	☐Yes XNo		6.		
Rush Turn Around Time Requested:	□Yes Ž		7.		
Sufficient Volume:			8.		
For Analysis: Æ\Yes ☐No MS/MSE	D: □Yes X 9No	□n/a			
Correct Containers Used:	X Yes □No		9.	1	·
-Pace Containers Used:	25 Yes □No	□n/a			
-Pace IR Containers Used:	□Yes □No	X Q _{I/A}			
Containers Intact:	∑ Yes □No		10.		
Filtered volume received for Dissolved tests	□Yes □No	25 0,/A	11.	!	
Sample Labels match COC:	XYes □No	□n/a	12.	1	
-Includes date/time/ID/Analysis Matrix:	<u>5</u>				
Trip Blank Present:	□Yes □No	A N/A	13.		
Trip Blank Custody Seals Present	□Yes □No	S i/A			
Pace Trip Blank Lot # (if purchased):					
Client Notification/ Resolution: Person Contacted: Comments/ Resolution:		_Date/		f checked, see attac	hed form for additional comments

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logic

Page a of A



Report of Analysis

Pace Analytical Services, LLC

1241 Bellevue Street
Suite 9
Green Bay, WI 54302
Attention: Christopher Hyska

Project Name: Newberry, MI
Project Number: 40232130
Lot Number: WH25012

Date Completed:09/23/2021

Kary Coman

09/23/2021 2:11 PM
Approved and released by:
Project Manager II: **Karen L. Coonan**





The electronic signature above is the equivalent of a handwritten signature.

This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Pace Analytical Services, LLC Lot Number: WH25012

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following reported analyses are currently not listed on our TNI scope of accreditation:

Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, Fecal Coliform SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, Solid Chemical Material: TOC Walkley-Black.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Due to sample matrix, sample WH25012-001 required centrifugation before a sample could be used for solid extraction. Sample was placed into a centrifuge bottle, where it was then centrifuged and the aqueous portion of the sample was decanted into the original bottle. The sample used for extraction was pulled from the solid plug left behind in the centrifuge bottle.

Due to the limited solid sample amount, the LOQ has been adjusted accordingly.

Surrogate recovery for the sample, MS and MSD for WH25012-001 was outside the upper control limit. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Sample Summary Pace Analytical Services, LLC

Lot Number: WH25012 Project Name: Newberry, MI Project Number: 40232130

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	NEWBERRY BIOSOLIDS	Solid	08/23/2021 1200	08/25/2021

(1 sample)

Detection Summary

Pace Analytical Services, LLC

Lot Number: WH25012 Project Name: Newberry, MI Project Number: 40232130

Sampl	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	NEWBERRY BIOSOLIDS	Solid	EtFOSAA	PFAS by ID	8.8	J	ug/kg	5
001	NEWBERRY BIOSOLIDS	Solid	MeFOSAA	PFAS by ID	17	J	ug/kg	5
001	NEWBERRY BIOSOLIDS	Solid	PFDA	PFAS by ID	2.0	J	ug/kg	5
001	NEWBERRY BIOSOLIDS	Solid	PFHxA	PFAS by ID	2.4	J	ug/kg	5

(4 detections)

PFAS by LC/MS/MS

Client: Pace Analytical Services, LLC

Description: NEWBERRY BIOSOLIDS

Date Sampled: 08/23/2021 1200 Project Name: Newberry, MI Laboratory ID: WH25012-001

Matrix: Solid

% Solids: 8.05 09/20/2021 2245

Date Received: 08/25/2021 Project Number: 40232130

Run Prep Method **Analytical Method Dilution** 1 SOP SPE PFAS by ID SOP

Analysis Date Analyst 09/21/2021 1810 JJG

Analytical

CAS

Prep Date

Batch 09/20/2021 1859 15910

Parameter	Number	Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS	5) 756426-58-1	PFAS by ID SOP	ND		24	1.9	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3) 763051-92-9	PFAS by ID SOP	ND		24	2.1	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	24	3.3	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		24	3.7	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		24	2.6	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		49	7.1	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		24	1.8	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA	2991-50-6	PFAS by ID SOP	8.8	J	24	3.5	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOS	AA) 2355-31-9	PFAS by ID SOP	17	J	24	4.8	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		12	1.6	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		12	2.7	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		12	2.1	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		12	2.7	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		12	2.2	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		12	2.3	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		12	2.1	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		12	5.1	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	2.0	J	12	1.9	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		12	2.1	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		12	1.7	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	2.4	J	12	2.3	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		12	1.8	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		12	2.6	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		12	1.9	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		12	2.3	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		12	2.1	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		12	2.3	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		12	4.3	ug/kg	1
	Run 1 Accer	otance						
Surrogate Q % F		nits						
13C2_4:2FTS	147 25	-150						
13C2_6:2FTS	118 25	-150						
13C2_8:2FTS N	170 25	-150						
13C2_PFDoA	73 25	-150						
13C2_PFTeDA	71 25	-150						
13C3_PFBS	87 25	-150						
13C3_PFHxS	101 25	-150						
13C3-HFPO-DA	91 25	-150						
13C4_PFBA	93 25	-150						
13C4_PFHpA	103 25	-150						
13C5_PFHxA	97 25	-150						

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

13C5_PFPeA

13C6_PFDA

13C7_PFUdA

LOQ = Limit of Quantitation

H = Out of holding time

ND = Not detected at or above the DL

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

B = Detected in the method blank

W = Reported on wet weight basis

N = Recovery is out of criteria

96

91

110

Q = Surrogate failure

L = LCS/LCSD failure S = MS/MSD failure

25-150

25-150

25-150

E = Quantitation of compound exceeded the calibration range

P =The RPD between two GC columns exceeds 40%

DL = Detection Limit

 $J = Estimated result < LOQ and \ge DL$

PFAS by LC/MS/MS

Client: Pace Analytical Services, LLC

Description: **NEWBERRY BIOSOLIDS**

Date Sampled: 08/23/2021 1200 Project Name: Newberry, MI

Laboratory ID: WH25012-001

Matrix: Solid

% Solids: 8.05 09/20/2021 2245

Date Received: 08/25/2021 Project Number: 40232130

Surrogate	Run 1 A Q % Recovery	Acceptance Limits
13C8_PFOA	95	25-150
13C8_PFOS	87	25-150
13C8_PFOSA	101	10-150
13C9_PFNA	95	25-150
d5-EtFOSAA	123	25-150
d3-MeFOSAA	118	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

H = Out of holding time

B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis

 $\label{eq:energy} E = \mbox{Quantitation of compound exceeded the calibration range} \\ P = \mbox{The RPD between two GC columns exceeds } 40\%$

DL = Detection Limit J = Estimated result < LOQ and $\geq DL$

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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QC Summary

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PFAS by LC/MS/MS - MB

Sample ID: WQ15910-001

Batch: 15910

Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE

Prep Date: 09/20/2021 1859

Parameter	Result	Q Dil	LOQ	DL	Units	Analysis Date
9CI-PF3ONS	ND	1	2.0	0.16	ug/kg	09/21/2021 1749
11CI-PF3OUdS	ND	1	2.0	0.17	ug/kg	09/21/2021 1749
8:2 FTS	ND	1	2.0	0.27	ug/kg	09/21/2021 1749
6:2 FTS	ND	1	2.0	0.31	ug/kg	09/21/2021 1749
4:2 FTS	ND	1	2.0	0.22	ug/kg	09/21/2021 1749
GenX	ND	1	4.0	0.58	ug/kg	09/21/2021 1749
ADONA	ND	1	2.0	0.15	ug/kg	09/21/2021 1749
EtFOSAA	ND	1	2.0	0.29	ug/kg	09/21/2021 1749
MeFOSAA	ND	1	2.0	0.40	ug/kg	09/21/2021 1749
PFBS	ND	1	1.0	0.13	ug/kg	09/21/2021 1749
PFDS	ND	1	1.0	0.22	ug/kg	09/21/2021 1749
PFHpS	ND	1	1.0	0.18	ug/kg	09/21/2021 1749
PFNS	ND	1	1.0	0.22	ug/kg	09/21/2021 1749
PFOSA	ND	1	1.0	0.18	ug/kg	09/21/2021 1749
PFPeS	ND	1	1.0	0.19	ug/kg	09/21/2021 1749
PFHxS	ND	1	1.0	0.18	ug/kg	09/21/2021 1749
PFBA	ND	1	1.0	0.42	ug/kg	09/21/2021 1749
PFDA	ND	1	1.0	0.16	ug/kg	09/21/2021 1749
PFDoA	ND	1	1.0	0.18	ug/kg	09/21/2021 1749
PFHpA	ND	1	1.0	0.14	ug/kg	09/21/2021 1749
PFHxA	ND	1	1.0	0.18	ug/kg	09/21/2021 1749
PFNA	ND	1	1.0	0.15	ug/kg	09/21/2021 1749
PFOA PFPeA	ND ND	1 1	1.0 1.0	0.21 0.16	ug/kg ug/kg	09/21/2021 1749 09/21/2021 1749
PFTeDA	ND	1	1.0	0.10	ug/kg ug/kg	09/21/2021 1749
PFTrDA	ND	1	1.0	0.19	ug/kg ug/kg	09/21/2021 1749
PFUdA	ND	1	1.0	0.17	ug/kg ug/kg	09/21/2021 1749
PFOS	ND	1	1.0	0.16	ug/kg ug/kg	09/21/2021 1749
	ND	Acceptance	1.0	0.00	ug/kg	00/21/2021 1740
Surrogate	Q % Re	C Limit				
13C2_4:2FTS	94	25-150				
13C2_6:2FTS	79	25-150				
13C2_8:2FTS	106	25-150				
13C2_PFDoA	91	25-150				
13C2_PFTeDA	95	25-150				
13C3_PFBS	89	25-150				
13C3_PFHxS	101	25-150				
13C3-HFPO-DA	93	25-150				
40C4 DEDA	93	25-150				
13C4_PFBA						
	98	25-150				
13C4_PFHpA 13C5_PFHxA	98 94	25-150 25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL J = Estimated result < LOQ and \geq DL

N = Recovery is out of criteria

DL = Detection Limit

P = The RPD between two GC columns exceeds 40%

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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QC Data for Lot Number: WH25012

^{* =} RSD is out of criteria

PFAS by LC/MS/MS - MB

Sample ID: WQ15910-001 Batch: 15910

Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE

Prep Date: 09/20/2021 1859

Q % Rec	Acceptance Limit
90	25-150
95	25-150
97	25-150
89	25-150
95	10-150
92	25-150
93	25-150
100	25-150
-	90 95 97 89 95 92

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ and \ge DL$

 $P = The \ RPD$ between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ15910-002

Batch: 15910

Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE

Prep Date: 09/20/2021 1859

	Spike Amount	Result			%Rec	
Parameter	(ug/kg)	(ug/kg) Q	Dil	% Rec	Limit	Analysis Date
9CI-PF3ONS	1.9	1.6	1	89	50-150	09/21/2021 1759
11CI-PF3OUdS	1.9	1.7	1	91	50-150	09/21/2021 1759
8:2 FTS	1.9	2.0	1	102	50-150	09/21/2021 1759
6:2 FTS	1.9	1.3	1	69	50-150	09/21/2021 1759
4:2 FTS	1.9	1.9	1	104	50-150	09/21/2021 1759
GenX	4.0	3.7	1	93	50-150	09/21/2021 1759
ADONA	1.9	1.8	1	97	50-150	09/21/2021 1759
EtFOSAA	2.0	1.4	1	71	50-150	09/21/2021 1759
MeFOSAA	2.0	1.6	1	82	50-150	09/21/2021 1759
PFBS	1.8	1.7	1	94	50-150	09/21/2021 1759
PFDS	1.9	1.5	1	77	50-150	09/21/2021 1759
PFHpS	1.9	1.9	1	99	50-150	09/21/2021 1759
PFNS	1.9	1.7	1	88	50-150	09/21/2021 1759
PFOSA	2.0	1.9	1	96	50-150	09/21/2021 1759
PFPeS	1.9	1.9	1	101	50-150	09/21/2021 1759
PFHxS	1.8	1.8	1	99	50-150	09/21/2021 1759
PFBA	2.0	1.9	1	96	50-150	09/21/2021 1759
PFDA	2.0	1.9	1	93	50-150	09/21/2021 1759
PFDoA	2.0	1.9	1	95	50-150	09/21/2021 1759
PFHpA	2.0	1.9	1	96	50-150	09/21/2021 1759
PFHxA	2.0	1.9	1	95	50-150	09/21/2021 1759
PFNA	2.0	2.0	1	99	50-150	09/21/2021 1759
PFOA PFPeA	2.0 2.0	1.8 1.8	1 1	88 92	50-150 50-150	09/21/2021 1759 09/21/2021 1759
PFTeDA	2.0	1.9	1	92 97	50-150	09/21/2021 1759
PFTrDA	2.0	2.0	1	99	50-150	09/21/2021 1759
PFUdA	2.0	1.8	1	99 91	50-150	09/21/2021 1759
PFOS	1.9	1.6	1	84	50-150	09/21/2021 1759
FF03	1.9		ı	04	30-130	09/21/2021 1759
Surrogate	Q % Rec	Acceptance Limit				
13C2_4:2FTS	98	25-150				
13C2_6:2FTS	85	25-150				
13C2_8:2FTS	106	25-150				
13C2_PFDoA	92	25-150				
13C2_PFTeDA	97	25-150				
13C3_PFBS	95	25-150				
13C3_PFHxS	101	25-150				
13C3-HFPO-DA	98	25-150				
13C4_PFBA	96	25-150				
13C4_PFHpA	100	25-150				
13C5_PFHxA	100	25-150				
13C5_PFPeA	99	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ \ and \ge DL \\ P = The \ RPD \ between \ two \ GC \ columns \ exceeds \ 40\%$

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

^{* =} RSD is out of criteria

PFAS by LC/MS/MS - LCS

Sample ID: WQ15910-002 **Batch:** 15910

Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE

Prep Date: 09/20/2021 1859

Q % Rec	Acceptance Limit
102	25-150
101	25-150
99	25-150
94	25-150
100	10-150
95	25-150
97	25-150
105	25-150
•	102 101 99 94 100 95 97

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

 $P = The \ RPD$ between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

QC Data for Lot Number: WH25012

PFAS by LC/MS/MS - MS

Sample ID: WH25012-001MS Batch: 15910

Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE

Prep Date: 09/20/2021 1859

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
9CI-PF3ONS	ND	1.6	1.5	-	1	92	50-150	09/21/2021 1821
11CI-PF3OUdS	ND	1.7	1.4		1	84	50-150	09/21/2021 1821
8:2 FTS	ND	1.7	1.5		1	89	50-150	09/21/2021 1821
6:2 FTS	ND	1.7	0.85		1	52	50-150	09/21/2021 1821
4:2 FTS	ND	1.6	1.5		1	94	50-150	09/21/2021 1821
GenX	ND	3.5	3.6		1	102	50-150	09/21/2021 1821
ADONA	ND	1.7	1.7		1	104	50-150	09/21/2021 1821
EtFOSAA	8.8	1.8	2.3		1	89	50-150	09/21/2021 1821
MeFOSAA	17	1.8	2.8		1	83	50-150	09/21/2021 1821
PFBS	ND	1.6	1.4		1	93	50-150	09/21/2021 1821
PFDS	ND	1.7	1.5		1	90	50-150	09/21/2021 1821
PFHpS	ND	1.7	1.3		1	79	50-150	09/21/2021 1821
PFNS	ND	1.7	1.7		1	102	50-150	09/21/2021 1821
PFOSA	ND	1.8	1.7		1	98	50-150	09/21/2021 1821
PFPeS	ND	1.6	1.6		1	96	50-150	09/21/2021 1821
PFHxS	ND	1.6	1.5		1	97	50-150	09/21/2021 1821
PFBA	ND	1.8	1.8		1	101	50-150	09/21/2021 1821
PFDA	2.0	1.8	1.8		1	96	50-150	09/21/2021 1821
PFDoA	ND	1.8	1.8		1	103	50-150	09/21/2021 1821
PFHpA	ND	1.8	1.7		1	98	50-150	09/21/2021 1821
PFHxA	2.4	1.8	1.9		1	95	50-150	09/21/2021 1821
PFNA	ND	1.8	1.8		1	103	50-150	09/21/2021 1821
PFOA	ND	1.8	1.8		1	101	50-150	09/21/2021 1821
PFPeA	ND	1.8	1.7		1	98	50-150	09/21/2021 1821
PFTeDA	ND	1.8	1.8		1	104	50-150	09/21/2021 1821
PFTrDA	ND	1.8	1.3		1	72	50-150	09/21/2021 1821
PFUdA	ND	1.8	1.8		1	103	50-150	09/21/2021 1821
PFOS	ND	1.6	2.0		1	121	50-150	09/21/2021 1821
Surrogate	Q % Re		eptance ₋imit					
13C2_4:2FTS	147	2	5-150					
13C2_6:2FTS	122	2	5-150					
13C2_8:2FTS	N 188	2	5-150					
13C2_PFDoA	71	2	5-150					
13C2_PFTeDA	63		5-150					
13C3_PFBS	89		5-150					
13C3_PFHxS	95		5-150					
13C3-HFPO-DA	89		5-150					
13C4_PFBA	87		5-150					
13C4_PFHpA	104		:5-150 :5-150					
13C5_PFHxA	95		5-150					
13C5_PFPeA	92	2	5-150					

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL P = The RPD between two GC columns exceeds 40%

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

^{* =} RSD is out of criteria

PFAS by LC/MS/MS - MS

Sample ID: WH25012-001MS

Batch: 15910

Analytical Method: PFAS by ID SOP

Matrix: Solid Prep Method: SOP SPE

Prep Date: 09/20/2021 1859

Q % Rec	Acceptance Limit
94	25-150
104	25-150
90	25-150
84	25-150
93	10-150
92	25-150
114	25-150
127	25-150
-	94 104 90 84 93 92 114

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ and \ge DL$

 $P = The \ RPD$ between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: WH25012-001MD **Batch:** 15910

Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE

Prep Date: 09/20/2021 1859

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
9CI-PF3ONS	ND	1.8	1.6		1	90	7.6	50-150	30	09/21/2021 1831
11CI-PF3OUdS	ND	1.8	1.5		1	81	5.7	50-150	30	09/21/2021 1831
8:2 FTS	ND	1.9	1.7		1	90	12	50-150	30	09/21/2021 1831
6:2 FTS	ND	1.8	1.2	+	1	66	34	50-150	30	09/21/2021 1831
4:2 FTS	ND	1.8	1.4		1	78	8.1	50-150	30	09/21/2021 1831
GenX	ND	3.9	3.8		1	99	7.7	50-150	30	09/21/2021 1831
ADONA	ND	1.8	2.0		1	108	14	50-150	30	09/21/2021 1831
EtFOSAA	8.8	1.9	2.4		1	89	6.9	50-150	30	09/21/2021 1831
MeFOSAA	17	1.9	3.0		1	87	7.9	50-150	30	09/21/2021 1831
PFBS	ND	1.7	1.6		1	95	12	50-150	30	09/21/2021 1831
PFDS	ND	1.9	1.9		1	100	21	50-150	30	09/21/2021 1831
PFHpS	ND	1.8	1.6		1	89	21	50-150	30	09/21/2021 1831
PFNS	ND	1.9	1.8		1	96	4.2	50-150	30	09/21/2021 1831
PFOSA	ND	1.9	1.9		1	100	13	50-150	30	09/21/2021 1831
PFPeS	ND	1.8	2.0		1	107	21	50-150	30	09/21/2021 1831
PFHxS	ND	1.8	1.7		1	96	8.7	50-150	30	09/21/2021 1831
PFBA	ND	1.9	1.9		1	100	8.8	50-150	30	09/21/2021 1831
PFDA	2.0	1.9	2.0		1	93	6.5	50-150	30	09/21/2021 1831
PFDoA	ND	1.9	2.0		1	105	12	50-150	30	09/21/2021 1831
PFHpA	ND	1.9	2.0		1	101	13	50-150	30	09/21/2021 1831
PFHxA	2.4	1.9	2.0		1	91	5.2	50-150	30	09/21/2021 1831
PFNA	ND	1.9	1.8		1	92	1.2	50-150	30	09/21/2021 1831
PFOA	ND	1.9	1.7		1	88	3.9	50-150	30	09/21/2021 1831
PFPeA	ND	1.9	1.9		1	96	9.2	50-150	30	09/21/2021 1831
PFTeDA	ND	1.9	2.0		1	103	9.5	50-150	30	09/21/2021 1831
PFTrDA	ND	1.9	1.3		1	68	4.2	50-150	30	09/21/2021 1831
PFUdA	ND	1.9	2.1		1	108	14	50-150	30	09/21/2021 1831
PFOS	ND	1.8	2.0		1	111	2.0	50-150	30	09/21/2021 1831
Surrogate	Q % R		eptance Limit							
13C2_4:2FTS	150) 2	25-150							
13C2_6:2FTS	114	1 2	25-150							
13C2_8:2FTS	N 213	3 2	25-150							
13C2_PFDoA	70	2	25-150							
13C2_PFTeDA	62	2	25-150							
13C3_PFBS	89		25-150							
13C3_PFHxS	90		25-150							
13C3-HFPO-DA	89		25-150							
13C4_PFBA	89		25-150							
13C4_PFHpA	107		25-150							
13C5_PFHxA	96		25-150							
1000_1 1 11/// (30	4	100							

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ and \ge DL$

 $P = The \ RPD$ between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

QC Data for Lot Number: WH25012

PFAS by LC/MS/MS - MSD

Sample ID: WH25012-001MD **Batch:** 15910

Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE

Prep Date: 09/20/2021 1859

Surrogate	Q % Rec	Acceptance Limit
13C6_PFDA	94	25-150
13C7_PFUdA	104	25-150
13C8_PFOA	92	25-150
13C8_PFOS	84	25-150
13C8_PFOSA	90	10-150
13C9_PFNA	97	25-150
d5-EtFOSAA	124	25-150
d3-MeFOSAA	129	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

 $P = The \ RPD$ between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

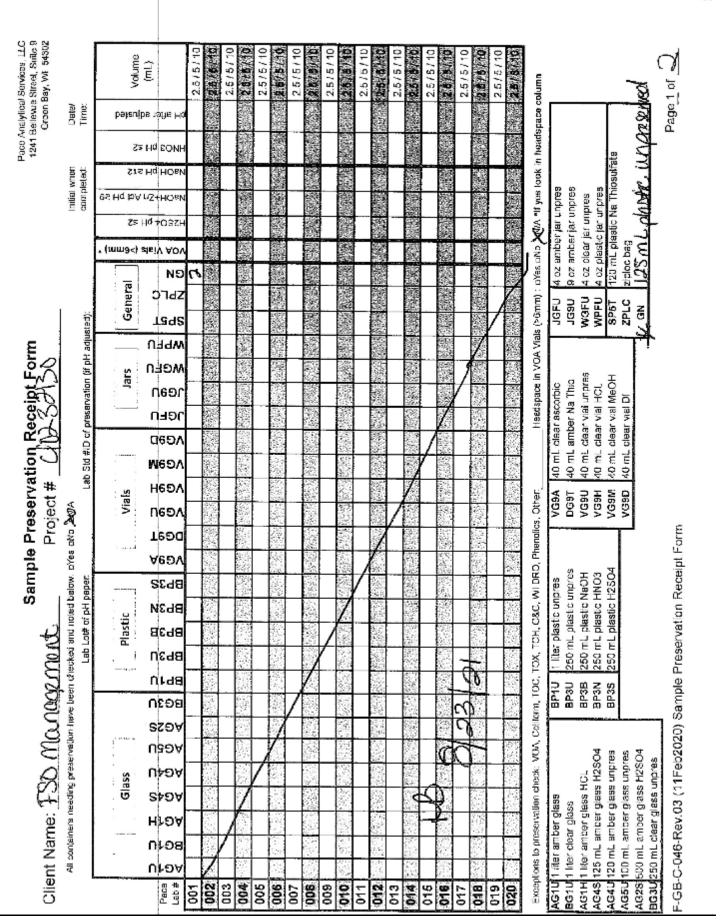
Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

QC Data for Lot Number: WH25012

Chain of Custody and Miscellaneous Documents

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EPA Level IV		151 1	VA = Weeks Water	33	5 5				CLIENT	-	LAB COMMENTS P	Profile #	
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Pace Analytical	Document Name; Sample Condition Upon Receipt (SC	uR) Document Revised: 26Mar2020
<i>f</i>	Document No.: 4302 ENV-FRM-GBAY-0014-Rev.00	Author
1241 Bellevue Street, Green Bay, WI 5	4302 ENV-FRM-GBAT-0014-Rev.00	Pace Green Bay Quality Office
Samp	le Condition Upon Receipt Form	(SCUR)
Client Name: FSO Manaopr		WO#:40232130
Courler: CS Logistics Fed Ex Spi	eedee FUPS FWaltco	
Client Page Other_ Tracking #:		40232130
Custody Seal on Cooler/Box Present:ye	es Kino Seals intact: E ves E no	
Custody Seal on Samples Present: yes	TK no Seals intact. T yes I no	
Packing Material: 📗 Bubble Wrap 🦵 🛭		
Thermometer Used SR - 765	Type of ice: Well Blue Dry None	Samples on ice, cooling process has begun
Cooler Temperature Uncom: 5 /Cor	,	Person examining contents:
Temp Blank Present: Xves T no	Biological Tissue is Frozen:	yes: T no Date: 8/23/20 /initials: 145
Temp should be above freezing to 6°C. Biota Samples may be received at \leq 0°C if shipped of	on Dovice.	
Chain of Custody Present:	ENGE □No □N/A 1.	Labeled By Initials:
Chain of Custody Filled Out:	XYes UND UNA 2.	
Chain of Custody Relinquished:	XXYes DNo DN/A 3.	
Sampler Name & Signature on COC:	XIYS □ND □NIA 4.	
Samples Arrived within Hold Time:	XYee □No 5,	
- VOA Samples frozen upon receipt	□Yes □No □ Date/Time:	
Short Hold Time Analysis (<72hr):	□Yes XNo 6.	
Rush Turn Around Time Requested:	□Yes ŽMio 7.	
Sufficient Volume:	8.	
For Analysis: Ælyas □ № MS/N	ASD: □Yes MANO □NVA	
Correct Containers Used:	XIYes □No 9.	
-Pace Containers Used:	28/cs (]no □n/a	
-Paca IR Containers Used.	□Yes □No XG WA	
Containers Intact:	ØYes □No 10.	
Filtered volume received for Dissolved tests	DYS DNo 89va 11.	
Sample Labels metch COC:	XYss □No □N/A 12.	
-Includes date/time/ID/Analysis Matrix:	5 - 1"	
Trip Blank Present:	□Yes □No ŒN/A 13.	
Trip Blank Custody Seals Present	DYES DNO XGVA	
Pace Trip Blank Lot # (if purchased):	73.5	
Client Notification/ Resolution:	If che	ecked, see attached form for additional comments
Person Contacted	Date/Time:	
Comments/ Resolution:		
M Review is documented electronically in	LIMs. By releasing the project, the PM ackr	nowledges they have reviewed the sample logic
		_
		Page <u>O</u> of <u>A</u>



Samples Receipt Checklist (SRC) (ME0018C-15)

Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020 Page 1 of 1

Sample Receipt Checklist (SRC)

Client: Pace	Cooler Inspected by/date: KDRW / 108/25/2021 Lot #: WH25010
Means of receipt:	Pace Client UPS FedEx Other:
✓ Yes No	Were custody seals present on the cooler?
✓ Yes No N	A 2. If custody scals were present, were they intact and unbroken?
pH Strip ID: NA	Chlorine Strip ID: NA Tested by: NA
Original temperature up	on receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 21-1425
2.4 /2.4 °C NA	NA °C NA /NA °C NA /NA °C
	e Blank Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C
Method of coolant: ✓	Wet Ice Dice Packs Dry Ice None
Yes No No	If temperature of any cooler exceeded 6.0°C, was Project Manager Notified?
	PM was Notified by: phone / email / face-to-face (circle one).
✓ Yes No No	A 4. Is the commercial courier's packing slip attached to this form?
100	Were proper custody procedures (relinquished/received) followed?
✓ Yes No	6. Were sample (Ds listed on the COC?
✓ Yes No	7. Were sample IDs listed on all sample containers?
✓ Yes No	8. Was collection date & time listed on the COC?
✓ Yes No	9. Was collection date & time listed on all sample containers? 10. Did all acceptance lefe listed on all sample containers? 11. Did all acceptance lefe listed on all sample containers?
✓ Yes No	10. Did all container label information (ID, date, time) agree with the COC?
V res L No	11. Were tests to be performed listed on the COC?
✓ Ycs □No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
✓ Yes No	13. Was adequate sample volume available?
✓ Yes No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐Yes ☐No 7N	16 For WOA and DEV 175 seconds and table to the second sec
	in any of the VOA vials?
☐ Yes ☐ No ✔N	A 17. Were all DRO/metals/nutrient samples received at a pH of < 2?
U Yes U No V N	A 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes ☐ No ☑N	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes ☐ No ☑N	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc)
	correctly transcribed from the COC into the comment section in LIMS?
Yes V No	21. Was the quote number listed on the container label? If yes, Quote #
Sample Preservation	(Must be completed for any sample(s) incorrectly preserved or with headspace.)
Sample(s) NA	were received incorrectly preserved and were adjusted accordingly
in sample receiving with	NAmL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA
Time of preservation N/	
Sample(s) NA	
Samples(s) NA	were received with bubbles >6 mm in diameter.
	were received with TRC > 0.5 mg/L (If #19 is no) and were ample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID; NA
SR barcode labels applied	d by: KDRW Date: 08/25/2021
Comments:	