

Report ID: S24915.01(01) Generated on 06/10/2021

Report to

Attention: Sherika Washington New England Fertilizer Company

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Report produced by

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Report Summary

Lab Sample ID(s): S24915.01

Project: Annual PFAS Composite Testing Collected Date(s): 05/28/2021 - 06/02/2021 Submitted Date/Time: 06/03/2021 16:30

Sampled by: Zack Prevo P.O. #: SHERIKA

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Maya Murshak Technical Director

Naya Mushah



General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples

for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the

FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Report Narrative

There is no additional narrative for this analytical report



Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884

Qualifier Descriptions

Qualifier	Description Description
!	Result is outside of stated limit criteria
В	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
Н	Sample submitted and run outside of holding time
1	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
0	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
Т	No correction for total solids
X	Elevated reporting limit due to matrix interference
Υ	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
е	Reported value estimated due to interference
j	Analyte also found in associated method blank
р	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



Method Summary

Method Version

ASTM D7968-17M ASTM Method D7968 - 17 Modified (Isotopic Dilution)

SM2540B Standard Method 2540 B 2011

Parameter Summary

Parameter	Synonym	Cas #
PFBA	Perfluorobutanoic Acid	375-22-4
PFPeA	Perfluoropentanoic Acid	2706-90-3
4:2 FTSA	4:2 Fluorotelomer Sulfonic Acid	757124-72-4
PFHxA	Perfluorohexanoic Acid	307-24-4
PFBS	Perfluorobutane sulfonic Acid	375-73-5
PFHpA	Perfluoroheptanoic Acid	375-85-9
PFPeS	Perfluoropentane Sulfonic Acid	2706-91-4
6:2 FTSA	6:2 Fluorotelomer Sulfonic Acid	27619-97-2
PFOA	Perfluorooctanoic Acid	335-67-1
PFHxS	Perfluorohexane Sulfonic Acid	355-46-4
PFHxS-LN	Perfluorohexane Sulfonic Acid - LN	355-46-4-LN
PFHxS-BR	Perfluorohexane Sulfonic Acid - BR	355-46-4-BR
PFNA	Perfluorononanoic Acid	375-95-1
8:2 FTSA	8:2 Fluorotelomer Sulfonic Acid	39108-34-4
PFHpS	Perfluoroheptane Sulfonic Acid	375-92-8
PFDA	Perfluorodecanoic Acid	335-76-2
N-MeFOSAA	N-methyl perfluorooctanesulfonamidoacetic acid	2355-31-9
EtFOSAA	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	2991-50-6
PFOS	Perfluorooctane Sulfonic Acid	1763-23-1
PFOS-LN	Perfluorooctane Sulfonic Acid - LN	1763-23-1-LN
PFOS-BR	Perfluorooctane Sulfonic Acid - BR	1763-23-1-BR
PFUnDA	Perfluoroundecanoic Acid	2058-94-8
PFNS	Perfluorononane Sulfonic Acid	68259-12-1
PFDoDA	Perfluorododecanoic Acid	307-55-1
PFDS	Perfluorodecane Sulfonic Acid	335-77-3
PFTrDA	Perfluorotridecanoic Acid	72629-94-8
FOSA	Perfluorooctane Sulfonamide	754-91-6
PFTeDA	Perfluorotetradecanoic Acid	376-06-7
11CI-PF3OUdS	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	763051-92-9
9CI-PF3ONS	9-chlorohexadecafluoro-3-oxanone1-sulfonic acid	756426-58-1
ADONA	4,8-dioxa-3H-perfluorononanoic acid	919005-14-4
HFPO-DA	Hexafluoropropylene oxide dimer	13252-13-6



Sample Summary (1 samples)

 Sample ID
 Sample Tag
 Matrix
 Collected Date/Time

 S24915.01
 Class A EQ Biosolids
 Solid
 05/28/21 00:01 - 06/02/21 00:01



Lab Sample ID: S24915.01

Sample Tag: Class A EQ Biosolids

Collected Date/Time: 05/28/2021 00:01 - 06/02/2021 00:01

Matrix: Solid COC Reference:

Sample Containers

Type Preservative(s) Refrigerated? Arrival Temp. (C) Thermometer # 3 1L Plastic None Yes 3.7 IR

Extraction / Prep.

 Parameter
 Result
 Method
 Run Date
 Analyst
 Flags

 Initial wt. (g) / Final wt. (g) / Volume (ml)*
 7.85/6.99/10
 ASTM D7968-17M
 06/07/21 10:30
 KCV
 1

Inorganics

Method: SM2540B, Run Date: 06/05/21 08:30, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	
Total Solids*	96	1		%	1			

Organics

28 PFAs, Method: ASTM D7968-17M, Run Date: 06/08/21 07:20, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags			
PFBA*	Not detected	0.24		ug/kg	12.1	375-22-4	12			
PFPeA*	Not detected	0.24		ug/kg	12.1	2706-90-3	XI			
4:2 FTSA*	Not detected	0.12		ug/kg	12.1	757124-72-4				
PFHxA*	1.5	0.12		ug/kg	12.1	307-24-4	1			
PFBS*	Not detected	0.12		ug/kg	12.1	375-73-5				
PFHpA*	Not detected	0.12		ug/kg	12.1	375-85-9	1			
PFPeS*	Not detected	0.12		ug/kg	12.1	2706-91-4				
6:2 FTSA*	0.46	0.12		ug/kg	12.1	27619-97-2	1			
PFOA*	0.57	0.12		ug/kg	12.1	335-67-1	1			
PFHxS*	Not detected	0.12		ug/kg	12.1	355-46-4				
PFHxS-LN*	Not detected	0.12		ug/kg	12.1	355-46-4-LN				
PFHxS-BR*	Not detected	0.12		ug/kg	12.1	355-46-4-BR				
PFNA*	0.16	0.12		ug/kg	12.1	375-95-1	1			
8:2 FTSA*	0.18	0.12		ug/kg	12.1	39108-34-4	1			
PFHpS*	Not detected	0.12		ug/kg	12.1	375-92-8				
PFDA*	0.54	0.12		ug/kg	12.1	335-76-2	1			
N-MeFOSAA*	0.96	0.12		ug/kg	12.1	2355-31-9	1			
EtFOSAA*	1.2	0.12		ug/kg	12.1	2991-50-6	1			
PFOS*	4.9	0.12		ug/kg	12.1	1763-23-1				
PFOS-LN*	3.4	0.12		ug/kg	12.1	1763-23-1-LN				
PFOS-BR*	1.6	0.12		ug/kg	12.1	1763-23-1-BR				
PFUnDA*	0.38	0.12		ug/kg	12.1	2058-94-8	1			
PFNS*	Not detected	0.12		ug/kg	12.1	68259-12-1				
PFDoDA*	0.43	0.12		ug/kg	12.1	307-55-1	1			
PFDS*	Not detected	0.25		ug/kg	12.1	335-77-3	X			
PFTrDA*	Not detected	0.12		ug/kg	12.1	72629-94-8	1			
FOSA*	0.16	0.12		ug/kg	12.1	754-91-6	1			
PFTeDA*	Not detected	0.12		ug/kg	12.1	376-06-7	1			
11CI-PF3OUdS*	Not detected	0.12		ug/kg	12.1	763051-92-9				

¹⁻Non-Merit bottles provided. Subsample taken to analyze

I-Matrix interference with internal standard 2-IS response <10%

X-Elevated reporting limit due to matrix interference



Lab Sample ID: S24915.01 (continued)

Sample Tag: Class A EQ Biosolids

28 PFAs, Method: ASTM D7968-17M, Run Date: 06/08/21 07:20, Analyst: KCV (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
9CI-PF3ONS*	Not detected	0.12		ug/kg	12.1	756426-58-1	_
ADONA*	Not detected	0.12		ug/kg	12.1	919005-14-4	1
HFPO-DA*	Not detected	0.12		ug/kg	12.1	13252-13-6	1

I-Matrix interference with internal standard

Merit Laboratories Login Checklist

Lab Set ID:S24915

Client:MISCPFC (New England Fertilizer Company)

Project: Annual PFAS Composite Testing Submitted: 06/03/2021 16:30 Login User: REJ Attention: Sherika Washington

Address: New England Fertilizer Company 9125 West Jefferson Ave. Detroit, MI 48209

Phone: 313-551-5278 FAX: ${\it Email: SWashington@nefcobiosolids.com}$

Sele	ction			Description	Note
Sam	ple Recei	ving			
01.	X Yes	No	□ N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.7
02.	X Yes	No	□ N/A	Received on ice/ cooling process begun	
03.	Yes	X No	□ N/A	Samples shipped	
04.	Yes	X No	N/A	Samples left in 24 hr. drop box	
05.	Yes	No	X N/A	Are there custody seals/tape or is the drop box locked	
Chai	n of Cust	ody			
06.	X Yes	No	□ N/A	COC adequately filled out	
07.	X Yes	No	N/A	COC signed and relinquished to the lab	
08.	X Yes	No	N/A	Sample tag on bottles match COC	
09.	Yes	X No	□ N/A	Subcontracting needed? Subcontacted to:	
Pres	ervation				
10.	X Yes	No	N/A	Do sample have correct chemical preservation	
11.	Yes	No	X N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	Yes	X No	N/A	Did any samples need to be preserved in the lab?	
Bottl	e Conditi	ons			
13.	X Yes	No	□ N/A	All bottles intact	
14.	Yes	X No	□ N/A	Appropriate analytical bottles are used	
15.	Yes	X No	N/A	Merit bottles used	
16.	X Yes	No	N/A	Sufficient sample volume received	
17.	Yes	X No	□ N/A	Samples require laboratory filtration	
18.	X Yes	No	N/A	Samples submitted within holding time	
19.	Yes	No	X N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all	exceptions is to call the clier	nt and to notify the project m	nanager.
Client Review By:		Date:	



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C.O.C. PAGE	#	1	OF	1

REPOR] `	Lairoratorics, inc.	CHAIN	OF	CU	ST	OE	Y	RE	CO	RD									IN	VOIC	E TO
CONTACT NAME S	CONTACT NAME Sherika Washington						CONTACT NAME												ME				
COMPANY Nev	New England Fertilizer Company						COMPANY																
ADDRESS 9125	W. Jef	ferson A	Ave.				7	ADDRESS											3				
Detroit				STATE MI ZIP C	ODE 4	820	9	CITY												STATE	Z	IP CODE	
PHONE NO. 313.5	551.5278		FAX NO. 313.406.3981	P.O. NO. Sherika	Western State of the State of t			PHON	E NO.					1	-MAIL A	DDRES	S						
E-MAIL ADDRESS	swashin	gton@1	nefcobiosolids.com	QUOTE NO.			7					A	NALY	/SIS (ATTAC	H LIS	TIFM	ORE SI	PACE	E IS REQUI	RED		
			S Composite Testing	SAMPLER(S) - PLEASE P	RINT/SIG	SN NAN	ME L		7:	ach F	Prevo	1	П	T	T		T		Γ	Certifica			
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LAB NO.	DATE	TIME	IDENTIFICATION-DES	SCRIPTION	MATRIX	# OF BOTTLES	NON	P S	H,SO,	NaOH	MeOH	PFA	%SL							Special	-	uctions	
24915.015	Composite	5/28-6/2/21	Class A EQ Biosolids		SD	1	X		T			V		П						Please ser	nd a c	copy of the	results
1	Composite	5/28-6/2/21	Class A EQ Biosolids		SD	1	X						1							to fmorriss	sette@	nefcobioso	lids.com
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