

429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Client: Ishpeming Area Wst. Trt. **WWA Job #:** 99211 **Project: Biosolids Date Received:** 3/23/2022 4/8/2022 **Date Reported:** Sample Number Client Sample ID **Date/Time Sampled** Sample Matrix 99211-001 **IAWWTF Biosolids** 3/22/2022 11:00 Sludge

Comments (if any):

TAL Cert. 9937, 9925, 9926

Key to Laboratory Flags:

- *: RPD/RSD exceeds limits.
- B: The analyte was found in the associated blank as well as in the sample.
- J: The quantitation is an estimated value because the result is less than the sample quantitation limit but greater than the detection limit.
- M: A matrix effect was present.
- Q: Batch QC data associated with the analysis does not meet the stated objectives
- H: Indicates analytical holding time exceedance.

ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit ppm = mg/L (liquid) or mg/kg (solid), ppb = ug/L (liquid) or ug/kg (solid)
For coliform, Negative = No coliform bacteria detected, Positive = Coliform bacteria detected

Sample Types:

S = Solids, DW = Drinking water, D = Dissolved, T = Total, TC = TCLP extract, SP = SPLP extract

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without the written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP and DoD QSM V5.4 reporting requirements.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and White Water Associates Standard Operating Procedures. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by White Water Associates management, as is verified by the following signature.

Approved By: Electronically signed by Bette J. Premo

remo

WI DNR Lab Certification Number: 999971280 MI EGLE Certification Number: 9306 DoD-ELAP QSM V5.4 Accreditation Number: 65802 by PJLA for Environmental Testing ISO/IEC 17025:2017 Accredited PJLA 65802

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SAMPLE ID AND LOCATION			ey be)rab (rine								ntain											
Containers for each sample may be combined on one line.	DATE	TIME	de (k) e (G		Chlo								ပို	>										
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TATWWIF			Matrix Code (key below)	Samp Type (G)rab (C)omp	Filtered	Residual Chlorine	None	H2SO4	HN03	모	NaOH	Na Thio	Other:	Number of Containers	Q Q										conditions of receipt noted by WWA lab staff.)
IAJWWTF Biosolids	3-22-22	11:00cm	_	G	<u> </u>		X							1	1/		\dashv								' !
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('/<		3.22.22		Ocm		_				()						1111,01		001111	1101110	, carri	p.0 .0	mp o	1	, p.,	Cooler
Relinquished by:		Date:	Tim		Rec	e jved	/by:			(Ba	23/2	22	Time:				i	i.J	}	15	NAME OF TAXABLE PARTY.	•
Matrix Code: Drinking Water (DW)	, Ground W	I ater (GW), V	<u>I</u> Vater	(W),	Sedir	nent (s d),	Soil/S	Solid (S), T	CLP ((TC), \$									11	' /	ی	,	
WHITE - RETURN W/ F		CANA					. •		` INK -					Ì		• •			UPS[F	^\ edEx	Mυ	SPSÆ	Cli	ent□ Other
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Login Checklist



Proj	ject No.:	99211	Date logged in.: 3/23/2022	Login person's initials: JT
Clie	nt:	Ishpeming Ar	ea Wst. Trt.	Number of coolers: 1
Proj	ect name:	Biosolids		Courier/shipper: FedEx
✓	1. Custody	seals/original]	packing tape were intact (if appli	cable).
✓	2. Samples	are in good co	ndition, i.e. not broken or leaking	g.
✓	3. Samples	were received	within holding times.	NOTES on #4:
✓	4. Samples	were received	on ice (in direct contact with the	samples).
✓	5. Tempera	ture of the sar	nples was between 0-6°C. Temp.:	5
		-	veen $0\text{-}6^{\circ}\mathrm{C}$ that are received at th not require client notification.	e laboratory on the day
✓	6. Samples	matched the C	Chain of Custody (COC).	
~	7. Proper c	ontainers were	e used.	
✓	8. Samples	were collected	in White Water lab containers.	
✓	9. There is	adequate samj	ple volume for requested analyses	s and QC.
	10. For wat	er VOC samp	les, headspace is less than the size	e of a pea.
✓	-	-	d to the proper pH. Sample bottle ontainer Section.	es and preservation are
✓	12. The CO	C is signed. (e	ither Sampler or Relinquished by	y)
	13. Sub-san section of lo	1 0 \ /	required. Bottles created are note	ed in sample containers
✓	14. For Dis	solved Analysi	s (when applicable), samples wer	e filtered in the lab.
	15. For soil	VOCs, metha	nol preserved samples were recei	ived.
	16. For Soi	l VOCs, samp	les were preserved with methanol	l in the lab.
	17. Client c	ontact is neces	ssary. Provide documentation bel	ow.
C	OMMENTS	/CORRECTI	VE ACTION	

CLIENT RESPONSE

Note: If hold time, volume, and received on ice or temperature criteria are not met when required by the method, results may not be able to be used for regulatory purposes. Check with your reporting agency for more information.



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC 2425 New Holland Pike Lancaster, PA 17601 Tel: (717)656-2300

Laboratory Job ID: 410-77618-1

Client Project/Site: 99211

Revision: 1

For:

White Water Associates 429 River Lane PO BOX 27 Amasa, Michigan 49903

Attn: Bette J Premo

Elizabeth M. Zanar

Authorized for release by: 4/6/2022 12:28:44 PM

Elizabeth Zanar, Project Manager (717)556-7290

Elizabeth.Zanar@et.eurofinsus.com

·····LINKS ······

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Project/Site: 99211

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- · QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- · Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- · Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Elizabeth M. Zanav

Elizabeth Zanar **Project Manager** 4/6/2022 12:28:44 PM

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Definitions/Glossary

Client: White Water Associates Job ID: 410-77618-1

Project/Site: 99211

Qualifiers

LCMS

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery

10 Paralli in france the

1C Result is from the primary column on a dual-column method.
 2C Result is from the confirmation column on a dual-column method.

CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: White Water Associates Job ID: 410-77618-1

Project/Site: 99211

Job ID: 410-77618-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-77618-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 4/5/2022. The report (revision 1) is being revised due to: the project description being corrected to match the COC.

Receipt

The sample was received on 3/25/2022 11:08 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8° C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

LCMS

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: White Water Associates Job ID: 410-77618-1

Project/Site: 99211

Client Sample ID: 99211-001

Lab Sample ID: 410-77618-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.0074	J	0.022	0.0072	mg/Kg		₩	EPA 537 (Mod)	Total/NA
Perfluorooctanoic acid	0.011	J	0.022	0.0072	mg/Kg	1	₩	EPA 537 (Mod)	Total/NA
Perfluorodecanoic acid	0.0072	J	0.022	0.0072	mg/Kg	1	₽	EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	0.027		0.022	0.0072	mg/Kg	1	₩	EPA 537 (Mod)	Total/NA
NEtFOSAA	0.013	J	0.072	0.0072	mg/Kg	1	₽	EPA 537 (Mod)	Total/NA
NMeFOSAA	0.017	J	0.072	0.0072	mg/Kg	1	₽	EPA 537 (Mod)	Total/NA

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Client Sample Results

Client: White Water Associates Job ID: 410-77618-1

Project/Site: 99211

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Client Sample ID: 99211-001 Lab Sample ID: 410-77618-1

Date Collected: 03/22/22 11:00

Matrix: Solid

Date Received: 03/25/22 11:08

Percent Solids: 1.4

Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	0.0074 J	0.022		mg/Kg	₩	03/31/22 08:24	04/05/22 07:34	1
Perfluoroheptanoic acid	ND	0.022	0.0072	mg/Kg	₩	03/31/22 08:24	04/05/22 07:34	1
Perfluorooctanoic acid	0.011 J	0.022	0.0072	mg/Kg	₽	03/31/22 08:24	04/05/22 07:34	1
Perfluorononanoic acid	ND	0.022	0.0072	mg/Kg	₽	03/31/22 08:24	04/05/22 07:34	1
Perfluorodecanoic acid	0.0072 J	0.022	0.0072	mg/Kg	₩	03/31/22 08:24	04/05/22 07:34	1
Perfluorotridecanoic acid	ND	0.022	0.0072	mg/Kg	₩	03/31/22 08:24	04/05/22 07:34	1
Perfluorotetradecanoic acid	ND	0.022	0.0072	mg/Kg	₩	03/31/22 08:24	04/05/22 07:34	1
Perfluorobutanesulfonic acid	ND	0.072	0.014	mg/Kg	≎	03/31/22 08:24	04/05/22 07:34	1
Perfluorohexanesulfonic acid	ND	0.022	0.0072	mg/Kg	₩	03/31/22 08:24	04/05/22 07:34	1
Perfluorooctanesulfonic acid	0.027	0.022	0.0072	mg/Kg	₽	03/31/22 08:24	04/05/22 07:34	1
NEtFOSAA	0.013 J	0.072	0.0072	mg/Kg	₩	03/31/22 08:24	04/05/22 07:34	1
NMeFOSAA	0.017 J	0.072	0.0072	mg/Kg	₩	03/31/22 08:24	04/05/22 07:34	1
Perfluoropentanesulfonic acid	ND	0.022	0.0072	mg/Kg		03/31/22 08:24	04/05/22 07:34	1
Perfluoroheptanesulfonic acid	ND	0.022	0.0072	mg/Kg	₩	03/31/22 08:24	04/05/22 07:34	1
Perfluorononanesulfonic acid	ND	0.022	0.0072	mg/Kg	₩	03/31/22 08:24	04/05/22 07:34	1
Perfluorodecanesulfonic acid	ND	0.022	0.0072		₩	03/31/22 08:24	04/05/22 07:34	1
Perfluorooctanesulfonamide	ND	0.022		mg/Kg	₩	03/31/22 08:24	04/05/22 07:34	1
Perfluorobutanoic acid	ND	0.072		mg/Kg	₩	03/31/22 08:24	04/05/22 07:34	1
Perfluoropentanoic acid	ND	0.022		mg/Kg		03/31/22 08:24	04/05/22 07:34	1
HFPODA	ND	0.072		mg/Kg	₩	03/31/22 08:24	04/05/22 07:34	1
DONA	ND	0.11		mg/Kg			04/05/22 07:34	1
9CI-PF3ONS	ND	0.072		mg/Kg			04/05/22 07:34	1
11CI-PF3OUdS	ND	0.022		mg/Kg	₩		04/05/22 07:34	1
Perfluoroundecanoic acid	ND	0.022		mg/Kg			04/05/22 07:34	1
Perfluorododecanoic acid	ND	0.022		mg/Kg			04/05/22 07:34	
8:2 Fluorotelomer sulfonic acid	ND	0.11		mg/Kg	₩		04/05/22 07:34	1
4:2 Fluorotelomer sulfonic acid	ND	0.072		mg/Kg	₩		04/05/22 07:34	1
6:2 Fluorotelomer sulfonic acid	ND	0.072		mg/Kg			04/05/22 07:34	1
Isotope Dilution	%Recovery Qualifier	Limits		3. 3		Prepared	Analyzed	Dil Fac
M2-4:2 FTS	157 Qualifier	10 - 200					04/05/22 07:34	1 Dil 1 ac
M2-8:2 FTS	148	15 - 200					04/05/22 07:34	1
M2-6:2 FTS	159	10 - 200					04/05/22 07:34	1
13C5 PFHxA	103	10 - 200					04/05/22 07:34	1
13C4 PFHpA	105	10 - 17 4 10 - 178					04/05/22 07:34	1
13C8 PFOA	107	26 ₋ 159					04/05/22 07:34	1
13C9 PFNA	100	26 - 165					04/05/22 07:34	
	115	26 - 161						1
13C6 PFDA							04/05/22 07:34 04/05/22 07:34	1
13C7 PFUnA	99	12 - 173						1
13C2-PFDoDA	90	11 - 166 10 - 160					04/05/22 07:34	1
13C2 PFTeDA	94	10 - 169					04/05/22 07:34	1
13C3 PFBS	111	27 - 179					04/05/22 07:34	
13C3 PFHxS	108	24 - 171					04/05/22 07:34	1
13C8 PFOS	105	41 - 154					04/05/22 07:34	1
d3-NMeFOSAA	109	10 - 178					04/05/22 07:34	
d5-NEtFOSAA	126	10 - 193					04/05/22 07:34	1
13C8 FOSA	103	14 - 163					04/05/22 07:34	1
13C4 PFBA	107	28 - 153					04/05/22 07:34	1
13C5 PFPeA	113	24 - 161					04/05/22 07:34	1
13C3 HFPO-DA	99	10 - 169				03/31/22 08:24	04/05/22 07:34	1

Eurofins Lancaster Laboratories Env, LLC

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Client Sample Results

Client: White Water Associates Job ID: 410-77618-1

Project/Site: 99211

Client Sample ID: 99211-001 Lab Sample ID: 410-77618-1

Date Collected: 03/22/22 11:00 **Matrix: Solid** Date Received: 03/25/22 11:08

Percent Solids: 1.4

General Chemistry									
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98.6		1.0	1.0	%			03/29/22 12:52	1

Job ID: 410-77618-1

Project/Site: 99211

Client: White Water Associates

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Solid Prep Type: Total/NA

		M242FTS	M282FTS	M262FTS	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA
Lab Sample ID	Client Sample ID	(10-200)	(15-200)	(10-200)	(10-174)	(10-178)	(26-159)	(26-165)	(26-161)
410-77618-1	99211-001	157	148	159	103	105	107	100	115
LCS 410-239543/2-B	Lab Control Sample	110	110	114	105	104	104	102	110
LCSD 410-239543/3-B	Lab Control Sample Dup	123	119	115	113	107	108	108	121
MB 410-239543/1-B	Method Blank	126	113	123	112	117	112	102	111
			Perce	ent Isotope	Dilution Re	covery (Ac	ceptance L	.imits)	
		13C7PUA	PFDoDA	PFTDA	C3PFBS	C3PFHS	C8PFOS	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(12-173)	(11-166)	(10-169)	(27-179)	(24-171)	(41-154)	(10-178)	(10-193)
410-77618-1	99211-001	99	90	94	111	108	105	109	126
LCS 410-239543/2-B	Lab Control Sample	103	101	102	110	108	111	129	135
LCSD 410-239543/3-B	Lab Control Sample Dup	120	114	113	118	110	116	136	149
MB 410-239543/1-B	Method Blank	105	106	95	108	117	111	120	134
			Perce	ent Isotope	Dilution Re	covery (Ac	ceptance L	.imits)	
		PFOSA	PFBA	PFPeA	HFPODA				
Lab Sample ID	Client Sample ID	(14-163)	(28-153)	(24-161)	(10-169)				
410-77618-1	99211-001	103	107	113	99				
LCS 410-239543/2-B	Lab Control Sample	122	109	116	111				
LCSD 410-239543/3-B	Lab Control Sample Dup	132	113	127	105				
MB 410-239543/1-B	Method Blank	114	107	111	111				

M242FTS = M2-4:2 FTS

M282FTS = M2-8:2 FTS

M262FTS = M2-6:2 FTS

13C5PHA = 13C5 PFHxA

C4PFHA = 13C4 PFHpA

C8PFOA = 13C8 PFOA

C9PFNA = 13C9 PFNA

C6PFDA = 13C6 PFDA

13C7PUA = 13C7 PFUnA

PFDoDA = 13C2-PFDoDA

PFTDA = 13C2 PFTeDA

C3PFBS = 13C3 PFBS

C3PFHS = 13C3 PFHxS

C8PFOS = 13C8 PFOS

d3NMFOS = d3-NMeFOSAA d5NEFOS = d5-NEtFOSAA

PFOSA = 13C8 FOSA

PFBA = 13C4 PFBA

PFPeA = 13C5 PFPeA

HFPODA = 13C3 HFPO-DA

Eurofins Lancaster Laboratories Env, LLC

4/6/2022 (Rev. 1)

Client: White Water Associates Project/Site: 99211

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-239543/1-B

Matrix: Solid

Analysis Batch: 240640

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 239543

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluoroheptanoic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluorooctanoic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluorononanoic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluorodecanoic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluorotridecanoic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluorotetradecanoic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluorobutanesulfonic acid	ND		0.0010	0.00020	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluorohexanesulfonic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluorooctanesulfonic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
NEtFOSAA	ND		0.0010	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
NMeFOSAA	ND		0.0010	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluoropentanesulfonic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluoroheptanesulfonic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluorononanesulfonic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluorodecanesulfonic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluorooctanesulfonamide	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluorobutanoic acid	ND		0.0010	0.00040	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluoropentanoic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
HFPODA	ND		0.0010	0.00020	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
DONA	ND		0.0015	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
9CI-PF3ONS	ND		0.0010	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
11CI-PF3OUdS	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluoroundecanoic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
Perfluorododecanoic acid	ND		0.00030	0.00010	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
8:2 Fluorotelomer sulfonic acid	ND		0.0015	0.00030	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
4:2 Fluorotelomer sulfonic acid	ND		0.0010	0.00030	mg/Kg		03/31/22 08:24	04/05/22 06:39	1
6:2 Fluorotelomer sulfonic acid	ND		0.0010	0.00030			03/31/22 08:24	04/05/22 06:39	1
	MB	MB							
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS			10 - 200					04/05/22 06:39	

	MB MB				
Isotope Dilution	%Recovery Qual	ifier Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	126	10 - 200	03/31/22 08:24	04/05/22 06:39	1
M2-8:2 FTS	113	15 - 200	03/31/22 08:24	04/05/22 06:39	1
M2-6:2 FTS	123	10 - 200	03/31/22 08:24	04/05/22 06:39	1
13C5 PFHxA	112	10 - 174	03/31/22 08:24	04/05/22 06:39	1
13C4 PFHpA	117	10 - 178	03/31/22 08:24	04/05/22 06:39	1
13C8 PFOA	112	26 - 159	03/31/22 08:24	04/05/22 06:39	1
13C9 PFNA	102	26 - 165	03/31/22 08:24	04/05/22 06:39	1
13C6 PFDA	111	26 - 161	03/31/22 08:24	04/05/22 06:39	1
13C7 PFUnA	105	12 - 173	03/31/22 08:24	04/05/22 06:39	1
13C2-PFDoDA	106	11 - 166	03/31/22 08:24	04/05/22 06:39	1
13C2 PFTeDA	95	10 - 169	03/31/22 08:24	04/05/22 06:39	1
13C3 PFBS	108	27 - 179	03/31/22 08:24	04/05/22 06:39	1
13C3 PFHxS	117	24 - 171	03/31/22 08:24	04/05/22 06:39	1
13C8 PFOS	111	41 - 154	03/31/22 08:24	04/05/22 06:39	1
d3-NMeFOSAA	120	10 - 178	03/31/22 08:24	04/05/22 06:39	1
d5-NEtFOSAA	134	10 - 193	03/31/22 08:24	04/05/22 06:39	1
13C8 FOSA	114	14 - 163	03/31/22 08:24	04/05/22 06:39	1
13C4 PFBA	107	28 - 153	03/31/22 08:24	04/05/22 06:39	1

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Job ID: 410-77618-1

Client: White Water Associates Project/Site: 99211

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

MB MB

Matrix: Solid

Matrix: Solid

Analysis Batch: 240640

Lab Sample ID: MB 410-239543/1-B

Lab Sample ID: LCS 410-239543/2-B

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 239543

Isotope Dilution %Recovery Qualifier Limits Prepared Analyzed Dil Fac 13C5 PFPeA 111 24 - 161 13C3 HFPO-DA 111 10 - 169 03/31/22 08:24 04/05/22 06:39

Client Sample ID: Lab Control Sample

		Prep Type: Total/NA	
		Prep Batch: 239543	
		%Rec	
כ	%Rec	Limits	

Analysis Batch: 240640 Spike LCS LCS Added Result Qualifier Analyte Unit 0.0250 0.0265 106 59 - 132 Perfluorohexanoic acid mg/Kg 0.0250 0.0259 103 59 - 137 Perfluoroheptanoic acid mg/Kg Perfluorooctanoic acid 0.0250 108 0.0270 mg/Kg 59 - 131 Perfluorononanoic acid 0.0250 0.0271 mg/Kg 108 61 - 134Perfluorodecanoic acid 0.0250 0.0244 mg/Kg 97 56 - 133 Perfluorotridecanoic acid 0.0250 0.0279 112 mg/Kg 53 - 143Perfluorotetradecanoic acid 0.0250 0.0264 105 62 - 134 mg/Kg 54 - 130 Perfluorobutanesulfonic acid 0.0221 0.0229 103 mg/Kg Perfluorohexanesulfonic acid 0.0228 0.0236 mg/Kg 103 59 - 129 Perfluorooctanesulfonic acid 0.0231 0.0229 mg/Kg 99 61 - 126**NEtFOSAA** 0.0250 0.0223 mg/Kg 89 57 - 127 **NMeFOSAA** 0.0250 0.0226 mg/Kg 90 60 - 134 Perfluoropentanesulfonic acid 0.0235 0.0247 mg/Kg 105 57 - 133 105 Perfluoroheptanesulfonic acid 0.0238 0.0251 mg/Kg 59 - 132 Perfluorononanesulfonic acid 0.0240 0.0241 101 60 - 132mg/Kg Perfluorodecanesulfonic acid 89 0.0241 0.0214 mg/Kg 57 - 132 Perfluorooctanesulfonamide 47 - 149 0.0250 0.0245 mg/Kg 98 Perfluorobutanoic acid 0.0250 0.0252 mg/Kg 101 60 - 128 Perfluoropentanoic acid 0.0250 0.0214 mg/Kg 86 58 - 134 **HFPODA** 0.0250 0.0256 103 49 - 135 mg/Kg DONA 0.0236 0.0252 mg/Kg 107 57 - 137 9CI-PF3ONS 0.0233 0.0231 mg/Kg 99 62 - 130 11CI-PF3OUdS 0.0233 0.0229 mg/Kg 99 55 - 135105 Perfluoroundecanoic acid 0.0250 0.0262 mg/Kg 60 - 134 Perfluorododecanoic acid 0.0250 0.0265 mg/Kg 106 60 - 1358:2 Fluorotelomer sulfonic acid 0.0240 0.0257 mg/Kg 108 55 - 133 4:2 Fluorotelomer sulfonic acid 0.0234 0.0234 mg/Kg 100 58 - 131 0.0237 92 6:2 Fluorotelomer sulfonic acid 0.0217 59 - 135 mg/Kg

LCS LCS

Isotope Dilution	%Recovery	Qualifier	Limits
M2-4:2 FTS	110		10 - 200
M2-8:2 FTS	110		15 - 200
M2-6:2 FTS	114		10 - 200
13C5 PFHxA	105		10 - 174
13C4 PFHpA	104		10 - 178
13C8 PFOA	104		26 - 159
13C9 PFNA	102		26 - 165
13C6 PFDA	110		26 - 161
13C7 PFUnA	103		12 - 173
13C2-PFDoDA	101		11 - 166
13C2 PFTeDA	102		10 - 169

Eurofins Lancaster Laboratories Env, LLC

Job ID: 410-77618-1

Client: White Water Associates Project/Site: 99211

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-239543/2-B

Matrix: Solid

Analysis Batch: 240640

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 239543

LCS LCS

Isotope Dilution	%Recovery	Qualifier	Limits
13C3 PFBS	110		27 - 179
13C3 PFHxS	108		24 - 171
13C8 PFOS	111		41 - 154
d3-NMeFOSAA	129		10 - 178
d5-NEtFOSAA	135		10 - 193
13C8 FOSA	122		14 - 163
13C4 PFBA	109		28 - 153
13C5 PFPeA	116		24 - 161
13C3 HFPO-DA	111		10 - 169

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 239543

Lab Sample ID: LCSD 410-239543/3-B **Matrix: Solid**

Analysis Batch: 240640

11CI-PF3OUdS

Perfluoroundecanoic acid

Perfluorododecanoic acid

8:2 Fluorotelomer sulfonic acid

4:2 Fluorotelomer sulfonic acid

6:2 Fluorotelomer sulfonic acid

Spike LCSD LCSD **RPD** %Rec Added Result Qualifier Unit %Rec Limits RPD Limit **Analyte** Perfluorohexanoic acid 0.0250 0.0270 108 59 - 132 2 30 mg/Kg Perfluoroheptanoic acid 0.0250 0.0276 mg/Kg 110 59 - 137 6

30 0.0263 105 Perfluorooctanoic acid 0.0250 mg/Kg 59 - 1313 30 Perfluorononanoic acid 0.0250 0.0269 mg/Kg 108 61 - 13430 Perfluorodecanoic acid 0.0250 0.0260 mg/Kg 104 56 - 133 6 30 107 Perfluorotridecanoic acid 0.0250 0.0267 mg/Kg 53 - 143 30 Perfluorotetradecanoic acid 30 0.0250 0.0259 mg/Kg 104 62 - 134 Perfluorobutanesulfonic acid 0.0221 54 - 130 8 30 0.0248 mg/Kg 112 Perfluorohexanesulfonic acid 0.0228 0.0250 mg/Kg 110 59 - 129 30 61 - 126 Perfluorooctanesulfonic acid 0.0231 0.0237 mg/Kg 103 30 **NEtFOSAA** 0.0250 0.0230 mg/Kg 92 57 - 127 30 **NMeFOSAA** 0.0250 0.0242 mg/Kg 97 60 - 13430 Perfluoropentanesulfonic acid 0.0235 0.0261 111 57 - 133 30 mg/Kg Perfluoroheptanesulfonic acid 0.0238 0.0255 107 59 - 132 30 2 mg/Kg Perfluorononanesulfonic acid 0.0240 0.0250 mg/Kg 104 60 - 132 30 Perfluorodecanesulfonic acid 0.0241 0.0225 mg/Kg 93 57 - 132 5 30 Perfluorooctanesulfonamide 0.0250 0.0245 mg/Kg 98 47 - 149 0 30 mg/Kg Perfluorobutanoic acid 0.0250 0.0256 102 60 - 12830 Perfluoropentanoic acid 0.0250 0.0216 mg/Kg 86 58 - 134 30 **HFPODA** 0.0250 0.0274 110 49 - 135 30 mg/Kg 30 **DONA** 0.0265 112 57 - 137 0.0236 mg/Kg 9CI-PF3ONS 0.0233 104 30 0.0243 mg/Kg 62 - 130

0.0233

0.0250

0.0250

0.0240

0.0234

0.0237

0.0241

0.0253

0.0253

0.0279

0.0235

0.0218

	LCSD	LCSD	
Isotope Dilution	%Recovery	Qualifier	Limits
M2-4:2 FTS	123		10 - 200
M2-8:2 FTS	119		15 - 200
M2-6:2 FTS	115		10 - 200
13C5 PEHVA	113		10 174

Eurofins Lancaster Laboratories Env, LLC

103

101

101

116

101

92

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

55 - 135

60 - 134

60 - 135

55 - 133

58 - 131

59 - 135

0

30

30

30

30

30

QC Sample Results

Client: White Water Associates Job ID: 410-77618-1

Project/Site: 99211

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-239543/3-B	Client Sample ID: Lab Control Sample Dup
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 240640	Prep Batch: 239543

Allalysis Datell. 240040				i iep Dateii. 2000-10
	LCSD	LCSD		
Isotope Dilution	%Recovery	Qualifier	Limits	
13C4 PFHpA	107		10 - 178	
13C8 PFOA	108		26 - 159	
13C9 PFNA	108		26 - 165	
13C6 PFDA	121		26 - 161	
13C7 PFUnA	120		12 - 173	
13C2-PFDoDA	114		11 - 166	
13C2 PFTeDA	113		10 - 169	
13C3 PFBS	118		27 - 179	
13C3 PFHxS	110		24 - 171	
13C8 PFOS	116		41 - 154	
d3-NMeFOSAA	136		10 - 178	
d5-NEtFOSAA	149		10 - 193	
13C8 FOSA	132		14 - 163	
13C4 PFBA	113		28 - 153	
13C5 PFPeA	127		24 - 161	
13C3 HFPO-DA	105		10 - 169	

4/6/2022 (Rev. 1)

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QC Association Summary

Client: White Water Associates

Job ID: 410-77618-1

Project/Site: 99211

LCMS

Prep Batch: 239543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep	Batch
410-77618-1	99211-001	Total/NA	Solid	EPA 537 (Mod)	
MB 410-239543/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	
LCS 410-239543/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	
LCSD 410-239543/3-B	Lab Control Sample Dup	Total/NA	Solid	EPA 537 (Mod)	

Cleanup Batch: 239636

Lab Sample ID 410-77618-1	Client Sample ID 99211-001	Prep Type Total/NA	Matrix Solid	Method Extract Aliquot	Prep Batch 239543
MB 410-239543/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	239543
LCS 410-239543/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	239543
LCSD 410-239543/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	239543

Analysis Batch: 240640

Lab Sample ID 410-77618-1	Client Sample ID 99211-001	Prep Type Total/NA	Matrix Solid	Method EPA 537 (Mod)	Prep Batch 239636
MB 410-239543/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	239636
LCS 410-239543/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	239636
LCSD 410-239543/3-B	Lab Control Sample Dup	Total/NA	Solid	EPA 537 (Mod)	239636

General Chemistry

Analysis Batch: 238731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-77618-1	99211-001	Total/NA	Solid	Moisture	

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Lab Chronicle

Client: White Water Associates Job ID: 410-77618-1

Project/Site: 99211

Client Sample ID: 99211-001 Lab Sample ID: 410-77618-1

Date Collected: 03/22/22 11:00 Matrix: Solid

Date Received: 03/25/22 11:08

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture			238731	03/29/22 12:52	UVJN	ELLE

Client Sample ID: 99211-001 Lab Sample ID: 410-77618-1

Date Collected: 03/22/22 11:00 Matrix: Solid
Date Received: 03/25/22 11:08 Percent Solids: 1.4

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (Mod)			239543	03/31/22 08:24	PR5J	ELLE
Total/NA	Cleanup	Extract Aliquot			239636	03/31/22 10:22	PR5J	ELLE
Total/NA	Analysis	EPA 537 (Mod)		1	240640	04/05/22 07:34	DQV6	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Accreditation/Certification Summary

Client: White Water Associates

EPA 537 (Mod)

Solid

Solid

EPA 537 (Mod)

Moisture

Job ID: 410-77618-1 Project/Site: 99211

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pro	gram	Identification Number Expiration Date
Michigan	Sta	te	9930 01-31-23
The following analyte the agency does not	•	t, but the laboratory is r	not certified by the governing authority. This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte
EPA 537 (Mod)	EPA 537 (Mod)	Solid	11CI-PF3OUdS
EPA 537 (Mod)	EPA 537 (Mod)	Solid	4:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	6:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	8:2 Fluorotelomer sulfonic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	9CI-PF3ONS
EPA 537 (Mod)	EPA 537 (Mod)	Solid	DONA
EPA 537 (Mod)	EPA 537 (Mod)	Solid	HFPODA
EPA 537 (Mod)	EPA 537 (Mod)	Solid	NEtFOSAA
EPA 537 (Mod)	EPA 537 (Mod)	Solid	NMeFOSAA
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorobutanesulfonic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorobutanoic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorodecanesulfonic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorodecanoic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorododecanoic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluoroheptanesulfonic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluoroheptanoic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorohexanesulfonic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorohexanoic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorononanesulfonic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorononanoic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorooctanesulfonamide
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorooctanesulfonic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorooctanoic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluoropentanesulfonic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluoropentanoic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorotetradecanoic acid
EPA 537 (Mod)	EPA 537 (Mod)	Solid	Perfluorotridecanoic acid
, ,	, ,		

Perfluoroundecanoic acid

Percent Moisture

Method Summary

Client: White Water Associates

Project/Site: 99211

Job ID: 410-77618-1

Method	Method Description	Protocol	Laboratory
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency

None = None

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Sample Summary

Client: White Water Associates

Project/Site: 99211

Job ID: 410-77618-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received		
410-77618-1	99211-001	Solid	03/22/22 11:00	03/25/22 11:08		

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TestAmerica Buffalo

10 Hazelwood Drive



Chain of Custody Record
220324 - Eurofins-Lancaster

<u>TestAmerica</u>

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Client Contact						_				0	Date	3/24/	27	COC No:	od Edboratorie	5, mo.
White Water Associates, Inc.		Project Manager: Judy Stone Tel/Fax: 484.685.0864										er: FedE		of	COCs	
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(906) 822-7977 FAX			weeks		1	ΣÞ	E	11						Lab Sampling		
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	Sample	Sample	Type			힐탈	9				- 1 1					
Sample Identification	Date	Time	(C≃Comp, G≖Grab)	Matrix	# of Cont.	er e	Z							Sample	Specific Notes	
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Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3; 5=	NaOH: 6=	Other				+						100				
Possible Hazard Identification:	114011, 0-	<u> </u>				S	ample	Disnos	al (A fe	e may he a	L hazzazz	f sample	S are re	ll tained longer t	han 1 month)	
Are any samples from a listed EPA Hazardous Waste? Please	List any EP.	A Waste Co	des for the	sample	in the	٦	ampic	Dispos	u. (A !!	ce may be a	3363364 1	Jampie	.s are re	tained longer t	nan r monin,	
Comments Section if the lab is to dispose of the sample.																
□Non-Hazard □Flammable □Skin Irritant	Poison	В	Unkno	wn		7	Retu	rn to Clier	nt	Dispos	al by Lab			Archive for	Months	
Special Instructions/QC Requirements & Comments:												-				
openia manadiono do maqui amonto di communico.																
Custody Seals Injact:	Custody							Coole	er Temp	o. (°C): Obs'd	119	Corr'c	1: 1.B		N4673000	445
Relinquished by:	Company	Š.		Da e/Ti	ne:	R	eceive	d by:				Comp	any:	Date/Time:		
	WWF	T		13/24/	ne: 22 14 a	2										
Relinquished by:	Company	:		Date/11	me:		eceive	by:				Comp	any:	Date/Time:		
Relinquished by:	Company			Date/Ti	me:	R	eceive	in Lab	oratory	фу:		Comp	any:	Date/Time/	11-0	
	/)		1 12	le	Date/Time: 3/25/22	/108	
												Form	No. CA-		4.2, dated 04/0	2/2013

Client: White Water Associates Job Number: 410-77618-1

Login Number: 77618 List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Phillips, Ann-Marie E

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.	True	
Cooler Temperature is acceptable (=6C, not frozen).</td <td></td>		
Cooler Temperature is recorded.		
WV: Container Temperature is acceptable (=6C, not frozen).</td <td></td>		
WV: Container Temperature is recorded.		
COC is present.	True	
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
There is sufficient vol. for all requested analyses.		
Is the Field Sampler's name present on COC?		Refer to Job Narrative for details.
Sample custody seals are intact.		

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