

Trace Analytical Laboratories, Inc.  
2241 Black Creek Road  
Muskegon, MI 49444-2673



231-773-5998 Phone  
888-979-4469 Fax  
www.trace-labs.com

April 21, 2021

Mr. Dale Clark  
Clare, City of  
202 W. Fifth St.  
Clare, Mi 48617

Phone: (989) 386-2321  
Fax:

RE: Trace ID: 21D0247

Dear Mr. Clark:

Enclosed are your analytical results associated with your project for PFAS - April 2021. The results of this report relate only to the samples listed in the body of this report.

The results were obtained from Prein and Newhof

Thank you for working with Trace. If you have questions concerning this report, please contact me at 231.773.5998 or by email at [tbrewer@trace-labs.com](mailto:tbrewer@trace-labs.com).

Sincerely,

A handwritten signature in black ink that reads "Timothy W. Brewer".

Tim Brewer  
Project Manager

Enclosures



NJDEP Accreditation No. MI008

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April 21, 2021

Trace Analytical Laboratories, Inc.  
2241 Black Creek Road  
Muskegon, MI 49444-2673

RE: 21D0247

Order No.: 2104443

Dear Mr. Tim Brewer:

Prein&Newhof Laboratory received 2 sample(s) on 4/9/2021 for the analyses presented in the following report.

All of the regulated parameters have been analyzed using EPA approved methods.

We are certified by the State of Michigan for drinking water analysis for: Coliform Bacteria, Metals, Cyanide, Minerals, Anions, Volatile Organics, THM's, Haloacetic Acids, and PFAS.

Michigan Lab ID#: 0020

EPA Lab #: MI000014

Quality control data is within laboratory defined or method specified acceptance limits except as noted in the case narrative.

The sample results associated with the attached report meet the safe drinking water criteria for the analytes reported unless indicated by a "\*" in the Qual field.

The results for PFHxS, PFOA, PFOS, MeFOSAA, and EtFOSAA includes both branched and linear isotopes.

A method blank was extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the reporting Limit

Thank you for your business.

Sincerely,



Steve Bylsma  
Laboratory Manager

CC:  
Ms. Gina Roe

<b>CLIENT:</b>	Trace Analytical Laboratories, Inc.	<b>Collection Date</b>	4/7/2021 10:30:00 AM
<b>Project:</b>	21D0247	<b>Received Date:</b>	4/9/2021 9:25:00 AM
<b>Lab ID:</b>	2104443-01	<b>Matrix:</b>	DRINKING WATER
<b>Client Sample ID:</b>	21D0247-01	<b>Sampled By:</b>	Unknown
<b>Location:</b>	Plant Tap		

Analyses	Result	RL	Qual	Units	MCL	Date Analyzed
<b>PFAS, DRINKING WATER</b>				<b>EPA 537.1</b>		Analyst: JS
PFBS	4.6	2.0		ng/L	420	4/20/2021 9:29:00 PM
PFHxA	< 2.0	2.0		ng/L	400000	4/20/2021 9:29:00 PM
HFPO-DA	< 2.0	2.0		ng/L	370	4/20/2021 9:29:00 PM
PFHxS	9.8	2.0		ng/L	51	4/20/2021 9:29:00 PM
PFHpA	2.4	2.0		ng/L		4/20/2021 9:29:00 PM
ADONA	< 2.0	2.0		ng/L		4/20/2021 9:29:00 PM
PFOA	< 2.0	2.0		ng/L	8.0	4/20/2021 9:29:00 PM
PFOS	5.1	2.0		ng/L	16	4/20/2021 9:29:00 PM
PFNA	< 2.0	2.0		ng/L	6.0	4/20/2021 9:29:00 PM
9CI-PF3ONS	< 2.0	2.0		ng/L		4/20/2021 9:29:00 PM
PFDA	< 2.0	2.0		ng/L		4/20/2021 9:29:00 PM
NMeFOSAA	< 2.0	2.0		ng/L		4/20/2021 9:29:00 PM
NEtFOSAA	< 2.0	2.0		ng/L		4/20/2021 9:29:00 PM
PFUnA	< 2.0	2.0		ng/L		4/20/2021 9:29:00 PM
11CI-PF3OUdS	< 2.0	2.0		ng/L		4/20/2021 9:29:00 PM
PFDaA	< 2.0	2.0		ng/L		4/20/2021 9:29:00 PM
PFTTrDA	< 2.0	2.0		ng/L		4/20/2021 9:29:00 PM
PFTA	< 2.0	2.0		ng/L		4/20/2021 9:29:00 PM
Surr: d5-N-EtFOSSA	97.0	70 - 130		%Rec		4/20/2021 9:29:00 PM
Surr: M3HFPO-DA	105	70 - 130		%Rec		4/20/2021 9:29:00 PM
Surr: MPFDA	92.3	70 - 130		%Rec		4/20/2021 9:29:00 PM
Surr: MPFHxA	94.6	70 - 130		%Rec		4/20/2021 9:29:00 PM

**Qualifiers:** < Not Detected at the Reporting Limit  
MCL Maximum Contaminant Level  
RL Reporting Limit

H Holding times for preparation or analysis exceeded  
PL Permit Limit

<b>CLIENT:</b>	Trace Analytical Laboratories, Inc.	<b>Collection Date</b>	4/7/2021 10:30:00 AM
<b>Project:</b>	21D0247	<b>Received Date:</b>	4/9/2021 9:25:00 AM
<b>Lab ID:</b>	2104443-02	<b>Matrix:</b>	BLANK
<b>Client Sample ID:</b>	Field Blank	<b>Sampled By:</b>	Unknown
<b>Location:</b>			

Analyses	Result	RL	Qual	Units	MCL	Date Analyzed
<b>PFAS, DRINKING WATER</b>			<b>EPA 537.1</b>		Analyst: JS	
PFBS	< 2.0	2.0		ng/L	420	4/20/2021 5:42:00 PM
PFHxA	< 2.0	2.0		ng/L	400000	4/20/2021 5:42:00 PM
HFPO-DA	< 2.0	2.0		ng/L	370	4/20/2021 5:42:00 PM
PFHxS	< 2.0	2.0		ng/L	51	4/20/2021 5:42:00 PM
PFHpA	< 2.0	2.0		ng/L		4/20/2021 5:42:00 PM
ADONA	< 2.0	2.0		ng/L		4/20/2021 5:42:00 PM
PFOA	< 2.0	2.0		ng/L	8.0	4/20/2021 5:42:00 PM
PFOS	< 2.0	2.0		ng/L	16	4/20/2021 5:42:00 PM
PFNA	< 2.0	2.0		ng/L	6.0	4/20/2021 5:42:00 PM
9CI-PF3ONS	< 2.0	2.0		ng/L		4/20/2021 5:42:00 PM
PFDA	< 2.0	2.0		ng/L		4/20/2021 5:42:00 PM
NMeFOSAA	< 2.0	2.0		ng/L		4/20/2021 5:42:00 PM
NEtFOSAA	< 2.0	2.0		ng/L		4/20/2021 5:42:00 PM
PFUnA	< 2.0	2.0		ng/L		4/20/2021 5:42:00 PM
11CI-PF3OUdS	< 2.0	2.0		ng/L		4/20/2021 5:42:00 PM
PFDaA	< 2.0	2.0		ng/L		4/20/2021 5:42:00 PM
PFTTrDA	< 2.0	2.0		ng/L		4/20/2021 5:42:00 PM
PFTA	< 2.0	2.0		ng/L		4/20/2021 5:42:00 PM
Surr: d5-N-EtFOSSA	99.9	70 - 130		%Rec		4/20/2021 5:42:00 PM
Surr: M3HFPO-DA	111	70 - 130		%Rec		4/20/2021 5:42:00 PM
Surr: MPFDA	93.2	70 - 130		%Rec		4/20/2021 5:42:00 PM
Surr: MPFHxA	90.9	70 - 130		%Rec		4/20/2021 5:42:00 PM

**Qualifiers:** < Not Detected at the Reporting Limit  
MCL Maximum Contaminant Level  
RL Reporting Limit

H Holding times for preparation or analysis exceeded  
PL Permit Limit

# QC SUMMARY REPORT

WO#: 2104443

4/21/2021

**Client:** Trace Analytical Laboratories, Inc.

**Project:** 21D0247

**TestCode:** PFAS-DW

Sample ID: <b>MB-3231</b>	SampType: <b>MBLK</b>	TestCode: <b>PFAS-DW</b>	Units: <b>ng/L</b>	Prep Date: <b>4/19/2021</b>	RunNo: <b>20884</b>						
Client ID: <b>PBW</b>	Batch ID: <b>3231</b>	TestNo: <b>EPA 537.1</b>		Analysis Date: <b>4/20/2021</b>	SeqNo: <b>358692</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	< 2.0	2.0									
PFHxA	< 2.0	2.0									
HFPO-DA	< 2.0	2.0									
PFHxS	< 2.0	2.0									
PFHpA	< 2.0	2.0									
ADONA	< 2.0	2.0									
PFOA	< 2.0	2.0									
PFOS	< 2.0	2.0									
PFNA	< 2.0	2.0									
9CI-PF3ONS	< 2.0	2.0									
PFDA	< 2.0	2.0									
NMeFOSAA	< 2.0	2.0									
NEtFOSAA	< 2.0	2.0									
PFUnA	< 2.0	2.0									
11CI-PF3OUdS	< 2.0	2.0									
PFDoA	< 2.0	2.0									
PFTTrDA	< 2.0	2.0									
PFTA	< 2.0	2.0									
Surr: d5-N-EtFOSSA	21		20.00		103	70	130				
Surr: M3HFPO-DA	60		50.00		121	70	130				
Surr: MPFDA	19		20.00		97.1	70	130				
Surr: MPFHxA	20		20.00		98.3	70	130				

**Qualifiers:** < Not Detected at the Reporting Limit  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
RL Reporting Limit

MCL Maximum Contaminant Level  
S Spike Recovery outside accepted recovery limits

Original  
Page 4 of 9

WO#: 2104443

4/21/2021

**Client:** Trace Analytical Laboratories, Inc.

**Project:** 21D0247

**TestCode:** PFAS-DW

Sample ID: <b>ICV-MID-3231</b>	SampType: <b>ICV-MID</b>	TestCode: <b>PFAS-DW</b>	Units: <b>ng/L</b>	Prep Date: <b>4/19/2021</b>	RunNo: <b>20884</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>3231</b>	TestNo: <b>EPA 537.1</b>	Analysis Date: <b>4/20/2021</b>	SeqNo: <b>358693</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	22	2.0	20.00	0	112	70	130				
PFHxA	21	2.0	20.00	0	107	70	130				
HFPO-DA	23	2.0	20.00	0	115	70	130				
PFHxS	22	2.0	20.00	0	109	70	130				
PFHpA	21	2.0	20.00	0	104	70	130				
ADONA	21	2.0	20.00	0	105	70	130				
PFOA	21	2.0	20.00	0	105	70	130				
PFOS	21	2.0	20.00	0	104	70	130				
PFNA	21	2.0	20.00	0	103	70	130				
9CI-PF3ONS	21	2.0	20.00	0	103	70	130				
PFDA	20	2.0	20.00	0	101	70	130				
NMeFOSAA	21	2.0	20.00	0	103	70	130				
NEtFOSAA	21	2.0	20.00	0	107	70	130				
PFUnA	21	2.0	20.00	0	103	70	130				
11CI-PF3OUdS	21	2.0	20.00	0	106	70	130				
PFDoA	20	2.0	20.00	0	101	70	130				
PFTTrDA	19	2.0	20.00	0	97.4	70	130				
PFTA	19	2.0	20.00	0	96.5	70	130				
Surr: d5-N-EtFOSSA	23		20.00		113	70	130				
Surr: M3HFPO-DA	72		50.00		144	70	130				S
Surr: MPFDA	22		20.00		111	70	130				
Surr: MPFHxA	23		20.00		117	70	130				

**Qualifiers:** < Not Detected at the Reporting Limit  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
RL Reporting Limit

MCL Maximum Contaminant Level  
S Spike Recovery outside accepted recovery limits

WO#: 2104443

4/21/2021

**Client:** Trace Analytical Laboratories, Inc.

**Project:** 21D0247

**TestCode:** PFAS-DW

Sample ID: <b>2104478-09AMS</b>	SampType: <b>MS-LOW</b>	TestCode: <b>PFAS-DW</b>	Units: <b>ng/L</b>	Prep Date: <b>4/19/2021</b>	RunNo: <b>20884</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>3231</b>	TestNo: <b>EPA 537.1</b>		Analysis Date: <b>4/21/2021</b>	SeqNo: <b>358710</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	4.1	1.8	3.636	0	112	50	150				
PFHxA	4.1	1.8	3.636	0	113	50	150				
HFPO-DA	4.5	1.8	3.636	0	123	50	150				
PFHxS	4.2	1.8	3.636	0	114	50	150				
PFHpA	5.2	1.8	3.636	0	143	50	150				
ADONA	3.9	1.8	3.636	0	108	50	150				
PFOA	4.1	1.8	3.636	0	113	50	150				
PFOS	4.3	1.8	3.636	0	118	50	150				
PFNA	4.2	1.8	3.636	0	116	50	150				
9CI-PF3ONS	3.9	1.8	3.636	0	106	50	150				
PFDA	3.9	1.8	3.636	0	109	50	150				
NMeFOSAA	4.0	1.8	3.636	0	109	50	150				
NEtFOSAA	4.2	1.8	3.636	0	116	50	150				
PFUnA	3.9	1.8	3.636	0	108	50	150				
11CI-PF3OUdS	3.7	1.8	3.636	0	102	50	150				
PFDoA	4.0	1.8	3.636	0	110	50	150				
PFTTrDA	3.7	1.8	3.636	0	103	50	150				
PFTA	3.7	1.8	3.636	0	101	50	150				
Surr: d5-N-EtFOSSA	79		72.73		108	70	130				
Surr: M3HFPO-DA	190		181.8		106	70	130				
Surr: MPFDA	70		72.73		96.2	70	130				
Surr: MPFHxA	74		72.73		102	70	130				

**Qualifiers:** < Not Detected at the Reporting Limit  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
RL Reporting Limit

MCL Maximum Contaminant Level  
S Spike Recovery outside accepted recovery limits

WO#: 2104443

4/21/2021

**Client:** Trace Analytical Laboratories, Inc.

**Project:** 21D0247

**TestCode:** PFAS-DW

Sample ID: <b>MB-2</b>	SampType: <b>MBLK</b>	TestCode: <b>PFAS-DW</b>	Units: <b>ng/L</b>	Prep Date: <b>4/21/2021</b>	RunNo: <b>20884</b>						
Client ID: <b>PBW</b>	Batch ID: <b>3231</b>	TestNo: <b>EPA 537.1</b>		Analysis Date: <b>4/21/2021</b>	SeqNo: <b>358711</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	< 2.0	2.0									
PFHxA	< 2.0	2.0									
HFPO-DA	< 2.0	2.0									
PFHxS	< 2.0	2.0									
PFHpA	< 2.0	2.0									
ADONA	< 2.0	2.0									
PFOA	< 2.0	2.0									
PFOS	< 2.0	2.0									
PFNA	< 2.0	2.0									
9CI-PF3ONS	< 2.0	2.0									
PFDA	< 2.0	2.0									
NMeFOSAA	< 2.0	2.0									
NEtFOSAA	< 2.0	2.0									
PFUnA	< 2.0	2.0									
11CI-PF3OUdS	< 2.0	2.0									
PFDoA	< 2.0	2.0									
PFTTrDA	< 2.0	2.0									
PFTA	< 2.0	2.0									
Surr: d5-N-EtFOSSA	20		20.00		101	70	130				
Surr: M3HFPO-DA	51		50.00		102	70	130				
Surr: MPFDA	19		20.00		96.3	70	130				
Surr: MPFHxA	20		20.00		99.6	70	130				

**Qualifiers:** < Not Detected at the Reporting Limit  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
RL Reporting Limit

MCL Maximum Contaminant Level  
S Spike Recovery outside accepted recovery limits



WO#: 2104443

4/21/2021

**Client:** Trace Analytical Laboratories, Inc.

**Project:** 21D0247

**TestCode:** PFAS-DW

Sample ID: <b>CCV-mid</b>	SampType: <b>ICV-MID</b>	TestCode: <b>PFAS-DW</b>	Units: <b>ng/L</b>	Prep Date: <b>4/21/2021</b>	RunNo: <b>20884</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>3231</b>	TestNo: <b>EPA 537.1</b>		Analysis Date: <b>4/21/2021</b>	SeqNo: <b>358712</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	22	2.0	20.00	0	110	70	130				
PFHxA	22	2.0	20.00	0	108	70	130				
HFPO-DA	23	2.0	20.00	0	114	70	130				
PFHxS	21	2.0	20.00	0	106	70	130				
PFHpA	20	2.0	20.00	0	102	70	130				
ADONA	21	2.0	20.00	0	106	70	130				
PFOA	20	2.0	20.00	0	102	70	130				
PFOS	21	2.0	20.00	0	103	70	130				
PFNA	20	2.0	20.00	0	102	70	130				
9CI-PF3ONS	20	2.0	20.00	0	102	70	130				
PFDA	20	2.0	20.00	0	99.6	70	130				
NMeFOSAA	21	2.0	20.00	0	105	70	130				
NEtFOSAA	21	2.0	20.00	0	106	70	130				
PFUnA	20	2.0	20.00	0	101	70	130				
11CI-PF3OUdS	21	2.0	20.00	0	106	70	130				
PFDoA	20	2.0	20.00	0	99.2	70	130				
PFTTrDA	19	2.0	20.00	0	93.6	70	130				
PFTA	19	2.0	20.00	0	93.1	70	130				
Surr: d5-N-EtFOSSA	22		20.00		112	70	130				
Surr: M3HFPO-DA	55		50.00		109	70	130				
Surr: MPFDA	22		20.00		110	70	130				
Surr: MPFHxA	23		20.00		117	70	130				

**Qualifiers:** < Not Detected at the Reporting Limit  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
RL Reporting Limit

MCL Maximum Contaminant Level  
S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2104443

4/21/2021

**Client:** Trace Analytical Laboratories, Inc.

**Project:** 21D0247

**TestCode:** PFAS-DW

Sample ID: <b>2104478-05ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>PFAS-DW</b>	Units: <b>ng/L</b>	Prep Date: <b>4/19/2021</b>	RunNo: <b>20884</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>3231</b>	TestNo: <b>EPA 537.1</b>	Analysis Date: <b>4/20/2021</b>	SeqNo: <b>358714</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	< 2.0	2.0						0	0	30	
PFHxA	< 2.0	2.0						0	0	30	
HFPO-DA	< 2.0	2.0						0	0	30	
PFHxS	< 2.0	2.0						0	0	30	
PFHpA	< 2.0	2.0						0	0	30	
ADONA	< 2.0	2.0						0	0	30	
PFOA	< 2.0	2.0						0	0	30	
PFOS	< 2.0	2.0						0	0	30	
PFNA	< 2.0	2.0						0	0	30	
9CI-PF3ONS	< 2.0	2.0						0	0	30	
PFDA	< 2.0	2.0						0	0	30	
NMeFOSAA	< 2.0	2.0						0	0	30	
NEtFOSAA	< 2.0	2.0						0	0	30	
PFUnA	< 2.0	2.0						0	0	30	
11CI-PF3OUdS	< 2.0	2.0						0	0	30	
PFDoA	< 2.0	2.0						0	0	30	
PFTTrDA	< 2.0	2.0						0	0	30	
PFTA	< 2.0	2.0						0	0	30	
Surr: d5-N-EtFOSSA	82		76.92		106	70	130		0	0	
Surr: M3HFPO-DA	270		192.3		140	70	130		0	0	S
Surr: MPFDA	79		76.92		102	70	130		0	0	
Surr: MPFHxA	82		76.92		107	70	130		0	0	

**Qualifiers:** < Not Detected at the Reporting Limit  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
RL Reporting Limit

MCL Maximum Contaminant Level  
S Spike Recovery outside accepted recovery limits

Original  
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**SUBCONTRACT ORDER**  
**21D0247**

**SENDING LABORATORY:**

Trace Analytical Laboratories, Inc.  
2241 Black Creek Road  
Muskegon, MI 49444  
Phone: 231.773.5998

**RECEIVING LABORATORY:**

Prein and Newhof  
3260 Evergreen Drive NE  
Grand Rapids, MI 49525  
Phone :(616) 364-7600

Project Manager: Tim Brewer

4443/1-2

**PO # 21D0247**



Matrix: Drinking Water      Sampled: 04/07/21 10:30      TAT: Standard

**Sample ID: DW PFAS- Plant Tap 21D0247-01**

***Analysis Needed:***

**PFAS Drinking Water- EGLE List with Field Blank**

702

Released By		Date	4/8/21	Received By		Date	4/9/21	0925
Released By		Date		Received By		Date		



Trace Analytical Laboratories, Inc.  
 2241 Black Creek Road  
 Muskegon, MI 49444-2673

Phone 231.773.5998  
 Fax 888.979.4469  
 www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

Trace ID No.  
 21D0247

Report Results To:

Bill To:

Trace Use:

Company Name: City of Clare PO #: \_\_\_\_\_  
 Report To: Dale Clark Contact Name: Shane  
 Mailing Address: 502 W. Fifth St Billing Address (if different): \_\_\_\_\_  
 City, State, Zip Code: Clare MI 49817 City, State, Zip Code: \_\_\_\_\_  
 Office Phone: 989-386-2321 Call Phone: 434-1825 Phone Number: \_\_\_\_\_  
 Email Address: dclark@cityofclare.org Billing Email Address: \_\_\_\_\_

Logged By: JS  
 Checked By: AW  
 Soil Volatiles Preserved (circle if applicable):  
 MeOH Low Level Lab  
 Sampling Time: \_\_\_\_\_

Turnaround Requirements:

Matrix Key:

- Standard, 5-10 Days  
 3 Day\*  
 1 Day\*
- S = Soil / Solid  
 W = Water  
 SL = Sludge  
 OI = Oil  
 WI = Wipes  
 LW = Liquid Waste  
 A = Air  
 D = Drinking Water

\*Results provided end of business day, requires prior approval.

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation							Remarks	Possible Health Hazards?		
							Cool	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	Other	Analysis Requested				
1	4-7-21	10:30	DIS PFAS - Plant Top		D	3											
2	4-7-21	10:30	Trip - Risk		W	2											
3																	
Please Sign		Released By	Received By	Date	Time	Released By	Date	Time									
		<u>Shane</u>	<u>JS</u>	<u>4/8</u>	<u>9:27</u>	<u>JS</u>	<u>4/8</u>	<u>18:08</u>									

Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

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### SAMPLE LOG IN CHECKLIST

Trace ID #: 21D0247 Date: 4/08/21 Package Description: Cooler Temperature: -0.8  
 Client Name: Clare, City of Time: 18:08 Logged in by: JH

#### Cooler Receipt

Cooler/samples delivered by: Trace courier  Hand delivered  Commercial courier  Name of delivery person: David  
 UPS  FED EX  US Mail   
 Tracking Number:  Not Applicable Tracking #: \_\_\_\_\_  
 COC Seals present and intact on cooler?  Not Applicable  No  Yes  
 Custody seals signed by Client?  No  Yes Client custody seal # (if applicable): \_\_\_\_\_

#### Coolant and Temperature

**Type of Coolant Used**  
 Slurry w/ crushed, cubed, or chip ice?   
 Multiple bags of ice around samples?   
 Ice Packs/ Blue Ice:   
 No Coolant Present:   
 Ice still present upon receipt (circle one): Yes No N/A

**Cooler Temperature**  
 Correction Factors: • Digital Stick Thermometer CF = -0.2°C (20B12743)  
 • IR Thermometer CF = -0.4°C (IR #8)  
 Representative Sample Temperature: 2.4 °C (check one below)  
 Temp Blank (Stick Thermometer)  
 Client Sample (IR Thermometer)  
 Melt Water: None °C (Use Digital Stick Thermometer)

#### General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
*pH checked - samples at correct pH and labeled as such?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Correct chemical preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Notes:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\*EMD pH Test Strips Used:

pH 0-2.5 Lot: HC029115  pH 11.0-13.0 Lot: HC729101  
 Other: \_\_\_\_\_

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