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

TRACE
ANALYTICAL LABORATORIES, INC.

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

October 18, 2022

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

RE: Trace Project 22J0245
Client Project Quarterly Analysis- PFAS

Dear Mr. Clark:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

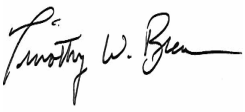
All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

The results were obtained from Prein and Newhof.

For clients that require NELAC Accreditation, Trace certifies that these test results meet all requirements of the NELAC Standard, except for those analytes with a "N" notation. These analytes have not been evaluated by NELAC at Trace's discretion and will not be reported unless requested by client.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at tbrewer@trace-labs.com.

Sincerely,



Tim Brewer
Project Manager

Enclosures

NELAP ACCREDITED TNI LABORATORY

NJDEP Accreditation No. MI008

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SAMPLE SUMMARY

Trace Project ID: 22J0245
Client Project ID: Quarterly Analysis- PFAS

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
22J0245-01	Plant Tap	Drinking Water	TQ	10/05/22 11:00	10/06/22 11:20

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
RDL	Reporting Detection Limit
MCL	Maximum Contamination Limit
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

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Prein&Newhof
Engineers ▪ Surveyors ▪ Environmental ▪ Laboratory

October 18, 2022

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

RE: 22J0245

Order No.: 2210498

Dear Mr. Tim Brewer:

Guide to reading Lab Result

Prein&Newhof Laboratory received 2 sample(s) on 10/7/2022 on your behalf. Your test results are provided in your Prein&Newhof Laboratory analytical report. Please carefully review your analytical report, noting the following.

- You can be assured that the sample results meet the Safe Drinking Water Criteria as no analyte tested exceeds the EPA Maximum Contaminant Level unless indicated by an " * " in the “Qual” column.
- You can be assured that all samples were received and analyzed within required holding times unless noted by a "H" in the “Qual” column.
- You can be assured that all quality control data is within laboratory-defined or method-specified acceptance limits unless defined by the addition of an attached Case Narrative document.
- When testing for PFHxS, PFOA, PFOS, MeFOSAA, and EtFOSAA results include both branched and linear isotopes. We extract a Method Blank and analyze it with the preparation batch. Method Blank analytes are within the Reporting Limit (RL).

We use EPA Approved Methods for all regulated parameters. EPA Lab #: MI000014

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

To learn more about interpreting your Drinking Water Test Results and reading your Lab Report, follow the link above to view our "Guide to Reading Lab Results". If you have any concerns about your test results or need additional help, please call: 616-364-7600 or email me: sbylsma@preinnewhof.com.

Thank you for trusting Prein&Newhof with your testing needs.

Sincerly,

Steve Bylsma
Laboratory Manager

3260 Evergreen Drive, NE Grand Rapids, MI 49525 t.616-364-7600 f. 616-364-4222 www.preinnewhof.com

Analytical Report

(DW)

WO#: **2210498**

Date Reported: **10/18/2022**

CLIENT:	Trace Analytical Laboratories, Inc.	**Collection Date**	10/5/2022 11:00:00 AM
Project:	22J0245	**Received Date:**	10/7/2022 9:20:00 AM
Lab ID:	2210498-01	**Matrix:**	DRINKING WATER
Client Sample ID:	22J0245-01	**Sampled By:**	TQ
Location:	Plant Tap		

Analyses	Result	RL	Qual	Units	MCL	Date Analyzed
PFAS, DRINKING WATER			**EPA 537.1**			Analyst: **JS**
PFBS	4.2	2.0		ng/L	420	10/18/2022 3:28:00 AM
PFHxA	< 2.0	2.0		ng/L	400000	10/18/2022 3:28:00 AM
HFPO-DA	< 2.0	2.0		ng/L	370	10/18/2022 3:28:00 AM
PFHxS	7.5	2.0		ng/L	51	10/18/2022 3:28:00 AM
PFHpA	< 2.0	2.0		ng/L		10/18/2022 3:28:00 AM
ADONA	< 2.0	2.0		ng/L		10/18/2022 3:28:00 AM
PFOA	< 2.0	2.0		ng/L	8.0	10/18/2022 3:28:00 AM
PFOS	4.8	2.0		ng/L	16	10/18/2022 3:28:00 AM
PFNA	< 2.0	2.0		ng/L	6.0	10/18/2022 3:28:00 AM
9Cl-PF3ONS	< 2.0	2.0		ng/L		10/18/2022 3:28:00 AM
PFDA	< 2.0	2.0		ng/L		10/18/2022 3:28:00 AM
NMeFOSAA	< 2.0	2.0		ng/L		10/18/2022 3:28:00 AM
NEtFOSAA	< 2.0	2.0		ng/L		10/18/2022 3:28:00 AM
PFUnA	< 2.0	2.0		ng/L		10/18/2022 3:28:00 AM
11Cl-PF3OUdS	< 2.0	2.0		ng/L		10/18/2022 3:28:00 AM
PFDoA	< 2.0	2.0		ng/L		10/18/2022 3:28:00 AM
PFTrDA	< 2.0	2.0		ng/L		10/18/2022 3:28:00 AM
PFTA	< 2.0	2.0		ng/L		10/18/2022 3:28:00 AM
Surr: d5-N-EtFOSSA	97.6	70 - 130		%Rec		10/18/2022 3:28:00 AM
Surr: M3HFPO-DA	113	70 - 130		%Rec		10/18/2022 3:28:00 AM
Surr: MPFDA	110	70 - 130		%Rec		10/18/2022 3:28:00 AM
Surr: MPFHxA	96.0	70 - 130		%Rec		10/18/2022 3:28:00 AM

Qualifiers:

<	Not Detected at the Reporting Limit	H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level	PL	Permit Limit
RL	Reporting Limit		

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Analytical Report

(DW)

WO#: **2210498**

Date Reported: **10/18/2022**

CLIENT:	Trace Analytical Laboratories, Inc.	**Collection Date**	10/5/2022 11:00:00 AM
Project:	22J0245	**Received Date:**	10/7/2022 9:20:00 AM
Lab ID:	2210498-02	**Matrix:**	BLANK
Client Sample ID:	Field Blank	**Sampled By:**	KT/JT
Location:			

Analyses	Result	RL	Qual	Units	MCL	Date Analyzed
PFAS, DRINKING WATER				**EPA 537.1**		Analyst: **JS**
PFBS	< 2.0	2.0		ng/L	420	10/18/2022 12:07:00 AM
PFHxA	< 2.0	2.0		ng/L	400000	10/18/2022 12:07:00 AM
HFPO-DA	< 2.0	2.0		ng/L	370	10/18/2022 12:07:00 AM
PFHxS	< 2.0	2.0		ng/L	51	10/18/2022 12:07:00 AM
PFHpA	< 2.0	2.0		ng/L		10/18/2022 12:07:00 AM
ADONA	< 2.0	2.0		ng/L		10/18/2022 12:07:00 AM
PFOA	< 2.0	2.0		ng/L	8.0	10/18/2022 12:07:00 AM
PFOS	< 2.0	2.0		ng/L	16	10/18/2022 12:07:00 AM
PFNA	< 2.0	2.0		ng/L	6.0	10/18/2022 12:07:00 AM
9Cl-PF3ONS	< 2.0	2.0		ng/L		10/18/2022 12:07:00 AM
PFDA	< 2.0	2.0		ng/L		10/18/2022 12:07:00 AM
NMeFOSAA	< 2.0	2.0		ng/L		10/18/2022 12:07:00 AM
NEtFOSAA	< 2.0	2.0		ng/L		10/18/2022 12:07:00 AM
PFUnA	< 2.0	2.0		ng/L		10/18/2022 12:07:00 AM
11Cl-PF3OUdS	< 2.0	2.0		ng/L		10/18/2022 12:07:00 AM
PFDoA	< 2.0	2.0		ng/L		10/18/2022 12:07:00 AM
PFTrDA	< 2.0	2.0		ng/L		10/18/2022 12:07:00 AM
PFTA	< 2.0	2.0		ng/L		10/18/2022 12:07:00 AM
Surr: d5-N-EtFOSSA	85.0	70 - 130		%Rec		10/18/2022 12:07:00 AM
Surr: M3HFPO-DA	110	70 - 130		%Rec		10/18/2022 12:07:00 AM
Surr: MPFDA	107	70 - 130		%Rec		10/18/2022 12:07:00 AM
Surr: MPFHxA	89.1	70 - 130		%Rec		10/18/2022 12:07:00 AM

Qualifiers:

<	Not Detected at the Reporting Limit	H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level	PL	Permit Limit
RL	Reporting Limit		

Original

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QC SUMMARY REPORT

WO#: **2210498**

10/18/2022

Client: Trace Analytical Laboratories, Inc.

Project: 22J0245 **TestCode:** **PFAS-DW**

Sample ID: **MB-L9-4837** SampType: **MBLK** TestCode: **PFAS-DW** Units: **ng/L** Prep Date: **10/13/2022** RunNo: **29422**

Client ID: **PBW** Batch ID: **4837** TestNo: **EPA 537.1** Analysis Date: **10/17/2022** SeqNo: **564386**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	< 1.8	1.8									
PFHxA	< 1.8	1.8									
HFPO-DA	< 1.8	1.8									
PFHxS	< 1.8	1.8									
PFHpA	< 1.8	1.8									
ADONA	< 1.8	1.8									
PFOA	< 1.8	1.8									
PFOS	< 1.8	1.8									
PFNA	< 1.8	1.8									
9Cl-PF3ONS	< 1.8	1.8									
PFDA	< 1.8	1.8									
NMeFOSAA	< 1.8	1.8									
NEtFOSAA	< 1.8	1.8									
PFUnA	< 1.8	1.8									
11Cl-PF3OUdS	< 1.8	1.8									
PFDoA	< 1.8	1.8									
PFTrDA	< 1.8	1.8									
PFTA	< 1.8	1.8									
Surr: d5-N-EtFOSSA	71		80.00		88.7	70	130				
Surr: M3HFPO-DA	240		200.0		119	70	130				
Surr: MPFDA	91		80.00		113	70	130				
Surr: MPFHxA	76		80.00		94.6	70	130				

Qualifiers:

<	Not Detected at the Reporting Limit	H	Holding times for preparation or analysis exceeded	MCL	Maximum Contaminant Level
PL	Permit Limit	RL	Reporting Limit		

Original

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QC SUMMARY REPORT

WO#: **2210498**

10/18/2022

Client: Trace Analytical Laboratories, Inc.

Project: 22J0245 **TestCode:** **PFAS-DW**

Sample ID: **LCS-mid-4837 A** SampType: **LCS-MID** TestCode: **PFAS-DW** Units: **ng/L** Prep Date: **10/13/2022** RunNo: **29422**

Client ID: **BatchQC** Batch ID: **4837** TestNo: **EPA 537.1** Analysis Date: **10/17/2022** SeqNo: **564387**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	82	1.8	80.00	0	102	70	130				
PFHxA	82	1.8	80.00	0	103	70	130				
HFPO-DA	80	1.8	80.00	0	99.9	70	130				
PFHxS	81	1.8	80.00	0	102	70	130				
PFHpA	66	1.8	80.00	0	82.5	70	130				
ADONA	81	1.8	80.00	0	102	70	130				
PFOA	81	1.8	80.00	0	101	70	130				
PFOS	79	1.8	80.00	0	98.9	70	130				
PFNA	79	1.8	80.00	0	98.3	70	130				
9Cl-PF3ONS	79	1.8	80.00	0	98.7	70	130				
PFDA	81	1.8	80.00	0	101	70	130				
NMeFOSAA	72	1.8	80.00	0	90.4	70	130				
NEtFOSAA	76	1.8	80.00	0	94.7	70	130				
PFUnA	80	1.8	80.00	0	99.6	70	130				
11Cl-PF3OUdS	78	1.8	80.00	0	97.8	70	130				
PFDoA	77	1.8	80.00	0	96.7	70	130				
PFTrDA	76	1.8	80.00	0	94.8	70	130				
PFTA	74	1.8	80.00	0	92.0	70	130				
Surr: d5-N-EtFOSSA	67		80.00		83.7	70	130				
Surr: M3HFPO-DA	230		200.0		116	70	130				
Surr: MPFDA	89		80.00		112	70	130				
Surr: MPFHxA	75		80.00		94.4	70	130				

Qualifiers:

<	Not Detected at the Reporting Limit	H	Holding times for preparation or analysis exceeded	MCL	Maximum Contaminant Level
PL	Permit Limit	RL	Reporting Limit		

Original

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QC SUMMARY REPORT

WO#: **2210498**

10/18/2022

Client: Trace Analytical Laboratories, Inc.

Project: 22J0245 **TestCode:** **PFAS-DW**

Sample ID: **2210674-01AMS** SampType: **MS-LOW** TestCode: **PFAS-DW** Units: **ng/L** Prep Date: **10/13/2022** RunNo: **29422**

Client ID: **BatchQC** Batch ID: **4837** TestNo: **EPA 537.1** Analysis Date: **10/18/2022** SeqNo: **564392**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	8.1	1.8	4.000	3.524	113	50	150				
PFHxA	5.7	1.8	4.000	1.500	104	50	150				
HFPO-DA	3.6	1.8	4.000	0	89.3	50	150				
PFHxS	5.0	1.8	4.000	0	124	50	150				
PFHpA	4.6	1.8	4.000	1.448	77.8	50	150				
ADONA	3.9	1.8	4.000	0	97.0	50	150				
PFOA	4.8	1.8	4.000	0	120	50	150				
PFOS	5.0	1.8	4.000	0.9552	101	50	150				
PFNA	4.1	1.8	4.000	0	103	50	150				
9Cl-PF3ONS	3.8	1.8	4.000	0	95.8	50	150				
PFDA	4.3	1.8	4.000	0	107	50	150				
NMeFOSAA	3.8	1.8	4.000	0	96.1	50	150				
NEtFOSAA	4.2	1.8	4.000	0	106	50	150				
PFUnA	4.2	1.8	4.000	0	105	50	150				
11Cl-PF3OUdS	3.9	1.8	4.000	0	97.0	50	150				
PFDoA	4.1	1.8	4.000	0	103	50	150				
PFTrDA	4.1	1.8	4.000	0	102	50	150				
PFTA	4.0	1.8	4.000	0	100	50	150				
Surr: d5-N-EtFOSSA	62		80.00		77.4	70	130				
Surr: M3HFPO-DA	240		200.0		121	70	130				
Surr: MPFDA	83		80.00		103	70	130				
Surr: MPFHxA	75		80.00		94.0	70	130				

Qualifiers:

<	Not Detected at the Reporting Limit	H	Holding times for preparation or analysis exceeded	MCL	Maximum Contaminant Level
PL	Permit Limit	RL	Reporting Limit		

Original

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QC SUMMARY REPORT

WO#: **2210498**

10/18/2022

Client: Trace Analytical Laboratories, Inc.

Project: 22J0245 **TestCode:** **PFAS-DW**

Sample ID: **2210604-01ADUP** SampType: **DUP** TestCode: **PFAS-DW** Units: **ng/L** Prep Date: **10/13/2022** RunNo: **29422**

Client ID: **BatchQC** Batch ID: **4837** TestNo: **EPA 537.1** Analysis Date: **10/18/2022** SeqNo: **564401**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	< 1.6	1.6						0	0	30	
PFHxA	< 1.6	1.6						0	0	30	
HFPO-DA	< 1.6	1.6						0	0	30	
PFHxS	< 1.6	1.6						0	0	30	
PFHpA	< 1.6	1.6						0	0	30	
ADONA	< 1.6	1.6						0	0	30	
PFOA	< 1.6	1.6						0	0	30	
PFOS	< 1.6	1.6						0	0	30	
PFNA	< 1.6	1.6						0	0	30	
9Cl-PF3ONS	< 1.6	1.6						0	0	30	
PFDA	< 1.6	1.6						0	0	30	
NMeFOSAA	< 1.6	1.6						0	0	30	
NEtFOSAA	< 1.6	1.6						0	0	30	
PFUnA	< 1.6	1.6						0	0	30	
11Cl-PF3OUdS	< 1.6	1.6						0	0	30	
PFDoA	< 1.6	1.6						0	0	30	
PFTrDA	< 1.6	1.6						0	0	30	
PFTA	< 1.6	1.6						0	0	30	
Surr: d5-N-EtFOSSA	65		72.73		89.7	70	130		0	0	
Surr: M3HFPO-DA	210		181.8		115	70	130		0	0	
Surr: MPFDA	81		72.73		112	70	130		0	0	
Surr: MPFHxA	68		72.73		93.0	70	130		0	0	

Qualifiers:

<	Not Detected at the Reporting Limit	H	Holding times for preparation or analysis exceeded	MCL	Maximum Contaminant Level
PL	Permit Limit	RL	Reporting Limit		

Original

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Muskegon, MI 49444-2673

TRACE ANALYTICAL LABORATORIES, INC.

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SUBCONTRACT ORDER

22J0245

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

Note Our New Email address: TraceSubOut@trace-labs.com

PO # 22J0245

Matrix: Drinking Water Sampled: 10/05/22 11:00 TAT: Standard 10498-1

Sample ID: Plant Tap 22J0245-01

Sampled By: TQ

Analysis Needed:

PFAS Drinking Water- EGLE List with Field Blank

2

8°C

Released By	Date	Received By	Date
	10/6/22	JMS	10/7/22 0920
Released By	Date	Received By	Date

Trace Analytical Laboratories, Inc.
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TRACE
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CHAIN-OF-CUSTODY RECORD

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Phone 231.773.5998
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Page ____ of ____

Trace ID No. 22J0245

Report Results To:

Company Name:	City of Clare	PO #:	
Report To:	Dale Clark	Contact Name:	Same
Mailing Address:	202 W. Fifth St	Billing Address (if different):	
City, State, Zip Code:	Clare, MI 48617	City, State, Zip Code:	
Office Phone: 989-386-2321	Cell Phone: 989-430-1225	Phone Number:	
Email Address: dclerk@cityofclare.org		Billing Email Address:	

Bill To:

Trace Use:

Logged By:	NC
Checked By:	
Soil Volatiles Preserved (circle if applicable): MeOH / Low Level / Lab	
Sampling Time:	

Turnaround Requirements:

- ☒ Standard, 5-10 Days
- ☐ 3 Day*
- ☐ 1 Day*

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

Matrix Key:

S = Soil / Solid, WI = Wipes, W = Water, LW = Liquid Waste, SL = Sludge, A = Air, Oil = Oil, D = Drinking Water

Project Name: Quarterly - October

Sampled By: Tom Quirk

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	Analysis Requested	Remarks	Possible Health Hazards?
1	10-5-22	11:00	Plant TAP		D	1	X					X	D.W. PFAS		

	Released By	Received By	Date	Time		Released By	Received By	Date	Time
1)	Tom Quirk	Eric Sno	10/6/22	11:20	2)	Eric Sno	Beverly Hoyt	10/6/22	15:28
3)					4)				

Please Sign

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

☒ 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.

Form 70-Z.1

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Trace Analytical Laboratories, Inc.
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TRACE
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888-979-4469 Fax
www.trace-labs.com

22J0245
Clare, City of
Project Manager: Tim Brewer

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.1°C)	IR-10 (CF: 0.0°C)	20B12743 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 10/6/22							
Time: 15:08							
Logged by: BV							
Package Description: Cooler							
Package Temp °C	-1.5	-1.5		✓			
Representative Sample Temp °C	4.6	4.0		✓			✓

Sample Receipt

Yes / No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [x] Trace Courier [ ] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes / No / N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace _____
- [ ] [ ] [x] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [ ] pH 0-2.5 (Lot: HC291593) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs _____

Chain of Custody (COC)

Yes / No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

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