

## **ANALYTICAL RESULTS SUMMARY**

GENERAL CHEMISTRY

**PROJECT NAME : R36720**

**TETRA TECH, EMI**

**240 Continental Drive, Suite 200**

**Newark, DE - 19713**

**Phone No: 302-738-7551**

**ORDER ID : P4649**

**ATTENTION : Ava Heiss**



**Laboratory Certification ID # 20012**



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## Cover Page

**Order ID :** P4649

**Project ID :** R36720

**Client :** Tetra Tech, EMI

### Lab Sample Number

P4649-01  
P4649-02  
P4649-03  
P4649-04  
P4649-05  
P4649-06  
P4649-07  
P4649-08  
P4649-09  
P4649-10  
P4649-11  
P4649-12  
P4649-13

### Client Sample Number

MC0JZ7  
MC0JZ9  
MC0K01  
MC0K04  
MC0K06  
MC0K08  
MC0K10  
MC0K12  
MC0K14  
MC0K16  
MC0K18  
MC0K20  
MC0K22

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : \_\_\_\_\_

Date: 11/6/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

**CASE NARRATIVE**

**Tetra Tech, EMI**  
**Project Name: R36720**  
**Project # N/A**  
**Chemtech Project # P4649**  
**Test Name: TSS**

**A. Number of Samples and Date of Receipt:**  
13 Water samples were received on 10/31/2024.

**B. Parameters:**  
According to the Chain of Custody document, the following analyses were requested:  
TSS. This data package contains results for TSS.

**C. Analytical Techniques:**  
The analysis of TSS was based on method SM2540 D.

**D. QA/ QC Samples:**  
The Holding Times were met for all analysis.  
The Blank Spike met requirements for all samples.  
The Duplicate analysis met criteria for all samples.  
The Blank analysis did not indicate the presence of lab contamination.  
The Calibration met the requirements.

**E. Additional Comments:**

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature\_\_\_\_\_

## DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

- J** Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
- U** Indicates the analyte was analyzed for, but not detected.
- ND** Indicates the analyte was analyzed for, but not detected
- E** Indicates the reported value is estimated because of the presence of interference
- M** Indicates Duplicate injection precision not met.
- N** Indicates the spiked sample recovery is not within control limits.
- S** Indicates the reported value was determined by the Method of Standard Addition (MSA).
- \*** Indicates that the duplicate analysis is not within control limits.
- +** Indicates the correlation coefficient for the MSA is less than 0.995.
- D** Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- M** Method qualifiers
  - “**P**” for ICP instrument
  - “**PM**” for ICP when Microwave Digestion is used
  - “**CV**” for Manual Cold Vapor AA
  - “**AV**” for automated Cold Vapor AA
  - “**CA**” for MIDI-Distillation Spectrophotometric
  - “**AS**” for Semi -Automated Spectrophotometric
  - “**C**” for Manual Spectrophotometric
  - “**T**” for Titrimetric
  - “**NR**” for analyte not required to be analyzed
- OR** Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
- Q** Indicates the LCS did not meet the control limits requirements
- H** Sample Analysis Out Of Hold Time

**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

Project #: P4649

Completed

For thorough review, the report must have the following:

**GENERAL:**

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

**COVER PAGE:**

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

**CHAIN OF CUSTODY:**

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

**ANALYTICAL:**

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/06/2024

### LAB CHRONICLE

<b>OrderID:</b> P4649	<b>OrderDate:</b> 10/31/2024 11:09:00 AM
<b>Client:</b> Tetra Tech, EMI	<b>Project:</b> R36720
<b>Contact:</b> Ava Heiss	<b>Location:</b> K61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4649-01	MC0JZ7	WATER			10/29/24 12:20			10/31/24
			TSS	SM2540 D			11/04/24 09:30	
P4649-02	MC0JZ9	WATER			10/29/24 12:30			10/31/24
			TSS	SM2540 D			11/04/24 09:30	
P4649-03	MC0K01	WATER			10/29/24 12:45			10/31/24
			TSS	SM2540 D			11/04/24 09:30	
P4649-04	MC0K04	WATER			10/29/24 12:40			10/31/24
			TSS	SM2540 D			11/04/24 09:30	
P4649-05	MC0K06	WATER			10/29/24 12:05			10/31/24
			TSS	SM2540 D			11/04/24 09:30	
P4649-06	MC0K08	WATER			10/29/24 11:20			10/31/24
			TSS	SM2540 D			11/04/24 09:30	
P4649-07	MC0K10	WATER			10/29/24 10:20			10/31/24
			TSS	SM2540 D			11/04/24 09:30	

**LAB CHRONICLE**

<b>P4649-08</b>	<b>MC0K12</b>	<b>WATER</b>		<b>10/29/24</b> <b>11:05</b>		<b>10/31/24</b>
			TSS	SM2540 D		11/04/24 09:30
<b>P4649-09</b>	<b>MC0K14</b>	<b>WATER</b>		<b>10/29/24</b> <b>11:50</b>		<b>10/31/24</b>
			TSS	SM2540 D		11/04/24 09:30
<b>P4649-10</b>	<b>MC0K16</b>	<b>WATER</b>		<b>10/29/24</b> <b>10:40</b>		<b>10/31/24</b>
			TSS	SM2540 D		11/04/24 09:30
<b>P4649-11</b>	<b>MC0K18</b>	<b>WATER</b>		<b>10/29/24</b> <b>12:55</b>		<b>10/31/24</b>
			TSS	SM2540 D		11/04/24 09:30
<b>P4649-12</b>	<b>MC0K20</b>	<b>WATER</b>		<b>10/29/24</b> <b>11:35</b>		<b>10/31/24</b>
			TSS	SM2540 D		11/04/24 09:30
<b>P4649-13</b>	<b>MC0K22</b>	<b>WATER</b>		<b>10/29/24</b> <b>09:45</b>		<b>10/31/24</b>
			TSS	SM2540 D		11/04/24 09:30



# SAMPLE DATA

## Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/29/24 12:20
Project:	R36720	Date Received:	10/31/24
Client Sample ID:	MC0JZ7	SDG No.:	P4649
Lab Sample ID:	P4649-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	263		1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments: \_\_\_\_\_

U = Not Detected  
 LOQ = Limit of Quantitation  
 MDL = Method Detection Limit  
 LOD = Limit of Detection  
 D = Dilution  
 Q = indicates LCS control criteria did not meet requirements  
 H = Sample Analysis Out Of Hold Time

J = Estimated Value  
 B = Analyte Found in Associated Method Blank  
 \* = indicates the duplicate analysis is not within control limits.  
 E = Indicates the reported value is estimated because of the presence of interference.  
 OR = Over Range  
 N = Spiked sample recovery not within control limits

## Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/29/24 12:30
Project:	R36720	Date Received:	10/31/24
Client Sample ID:	MC0JZ9	SDG No.:	P4649
Lab Sample ID:	P4649-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	3.00	J	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments: \_\_\_\_\_

U = Not Detected  
 LOQ = Limit of Quantitation  
 MDL = Method Detection Limit  
 LOD = Limit of Detection  
 D = Dilution  
 Q = indicates LCS control criteria did not meet requirements  
 H = Sample Analysis Out Of Hold Time

J = Estimated Value  
 B = Analyte Found in Associated Method Blank  
 \* = indicates the duplicate analysis is not within control limits.  
 E = Indicates the reported value is estimated because of the presence of interference.  
 OR = Over Range  
 N = Spiked sample recovery not within control limits

### Report of Analysis

A

B

C

D

Client:	Tetra Tech, EMI	Date Collected:	10/29/24 12:45
Project:	R36720	Date Received:	10/31/24
Client Sample ID:	MC0K01	SDG No.:	P4649
Lab Sample ID:	P4649-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.60	J	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments: \_\_\_\_\_

U = Not Detected  
 LOQ = Limit of Quantitation  
 MDL = Method Detection Limit  
 LOD = Limit of Detection  
 D = Dilution  
 Q = indicates LCS control criteria did not meet requirements  
 H = Sample Analysis Out Of Hold Time

J = Estimated Value  
 B = Analyte Found in Associated Method Blank  
 \* = indicates the duplicate analysis is not within control limits.  
 E = Indicates the reported value is estimated because of the presence of interference.  
 OR = Over Range  
 N = Spiked sample recovery not within control limits

## Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/29/24 12:40
Project:	R36720	Date Received:	10/31/24
Client Sample ID:	MC0K04	SDG No.:	P4649
Lab Sample ID:	P4649-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.00	U	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments: \_\_\_\_\_

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 LOD = Limit of Detection  
 D = Dilution  
 Q = indicates LCS control criteria did not meet requirements  
 H = Sample Analysis Out Of Hold Time

J = Estimated Value  
 B = Analyte Found in Associated Method Blank  
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 E = Indicates the reported value is estimated because of the presence of interference.  
 OR = Over Range  
 N = Spiked sample recovery not within control limits

## Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/29/24 12:05
Project:	R36720	Date Received:	10/31/24
Client Sample ID:	MC0K06	SDG No.:	P4649
Lab Sample ID:	P4649-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.00	U	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments: \_\_\_\_\_

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 MDL = Method Detection Limit  
 LOD = Limit of Detection  
 D = Dilution  
 Q = indicates LCS control criteria did not meet requirements  
 H = Sample Analysis Out Of Hold Time

J = Estimated Value  
 B = Analyte Found in Associated Method Blank  
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 E = Indicates the reported value is estimated because of the presence of interference.  
 OR = Over Range  
 N = Spiked sample recovery not within control limits

## Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/29/24 11:20
Project:	R36720	Date Received:	10/31/24
Client Sample ID:	MC0K08	SDG No.:	P4649
Lab Sample ID:	P4649-06	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.00	U	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments: \_\_\_\_\_

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 LOQ = Limit of Quantitation  
 MDL = Method Detection Limit  
 LOD = Limit of Detection  
 D = Dilution  
 Q = indicates LCS control criteria did not meet requirements  
 H = Sample Analysis Out Of Hold Time

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 B = Analyte Found in Associated Method Blank  
 \* = indicates the duplicate analysis is not within control limits.  
 E = Indicates the reported value is estimated because of the presence of interference.  
 OR = Over Range  
 N = Spiked sample recovery not within control limits

### Report of Analysis

A

B

C

D

Client:	Tetra Tech, EMI	Date Collected:	10/29/24 10:20
Project:	R36720	Date Received:	10/31/24
Client Sample ID:	MC0K10	SDG No.:	P4649
Lab Sample ID:	P4649-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.10	J	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments: \_\_\_\_\_

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 LOQ = Limit of Quantitation  
 MDL = Method Detection Limit  
 LOD = Limit of Detection  
 D = Dilution  
 Q = indicates LCS control criteria did not meet requirements  
 H = Sample Analysis Out Of Hold Time

J = Estimated Value  
 B = Analyte Found in Associated Method Blank  
 \* = indicates the duplicate analysis is not within control limits.  
 E = Indicates the reported value is estimated because of the presence of interference.  
 OR = Over Range  
 N = Spiked sample recovery not within control limits

### Report of Analysis

A

B

C

D

Client:	Tetra Tech, EMI	Date Collected:	10/29/24 11:05
Project:	R36720	Date Received:	10/31/24
Client Sample ID:	MC0K12	SDG No.:	P4649
Lab Sample ID:	P4649-08	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.50	J	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments: \_\_\_\_\_

U = Not Detected  
 LOQ = Limit of Quantitation  
 MDL = Method Detection Limit  
 LOD = Limit of Detection  
 D = Dilution  
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 H = Sample Analysis Out Of Hold Time

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 OR = Over Range  
 N = Spiked sample recovery not within control limits

## Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/29/24 11:50
Project:	R36720	Date Received:	10/31/24
Client Sample ID:	MC0K14	SDG No.:	P4649
Lab Sample ID:	P4649-09	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.00	U	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments: \_\_\_\_\_

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 LOD = Limit of Detection  
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 H = Sample Analysis Out Of Hold Time

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 E = Indicates the reported value is estimated because of the presence of interference.  
 OR = Over Range  
 N = Spiked sample recovery not within control limits

## Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/29/24 10:40
Project:	R36720	Date Received:	10/31/24
Client Sample ID:	MC0K16	SDG No.:	P4649
Lab Sample ID:	P4649-10	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.00	U	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments: \_\_\_\_\_

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 LOD = Limit of Detection  
 D = Dilution  
 Q = indicates LCS control criteria did not meet requirements  
 H = Sample Analysis Out Of Hold Time

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 B = Analyte Found in Associated Method Blank  
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 OR = Over Range  
 N = Spiked sample recovery not within control limits

## Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/29/24 12:55
Project:	R36720	Date Received:	10/31/24
Client Sample ID:	MC0K18	SDG No.:	P4649
Lab Sample ID:	P4649-11	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	12.1		1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments: \_\_\_\_\_

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 LOD = Limit of Detection  
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## Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/29/24 11:35
Project:	R36720	Date Received:	10/31/24
Client Sample ID:	MC0K20	SDG No.:	P4649
Lab Sample ID:	P4649-12	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.00	U	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments: \_\_\_\_\_

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 E = Indicates the reported value is estimated because of the presence of interference.  
 OR = Over Range  
 N = Spiked sample recovery not within control limits

## Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/29/24 09:45
Project:	R36720	Date Received:	10/31/24
Client Sample ID:	MC0K22	SDG No.:	P4649
Lab Sample ID:	P4649-13	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	5.80		1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments: \_\_\_\_\_

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 MDL = Method Detection Limit  
 LOD = Limit of Detection  
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# QC RESULT SUMMARY

### Preparation Blank Summary

<b>Client:</b>	Tetra Tech, EMI	<b>SDG No.:</b>	P4649
<b>Project:</b>	R36720		

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	<b>LB133266BL</b>						
TSS	mg/L	< 2.0000	2.0000	U	1	4	11/04/2024

### Duplicate Sample Summary

<b>Client:</b>	Tetra Tech, EMI	<b>SDG No.:</b>	P4649
<b>Project:</b>	R36720	<b>Sample ID:</b>	P4638-02
<b>Client ID:</b>	COMPDUP	<b>Percent Solids for Spike Sample:</b>	0

A

B

C

D

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
TSS	mg/L	+/-5	734		740		1	0.81		11/04/2024

### Laboratory Control Sample Summary

<b>Client:</b>	Tetra Tech, EMI	<b>SDG No.:</b>	P4649
<b>Project:</b>	R36720	<b>Run No.:</b>	LB133266

A

B

C

D

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133266BS							
TSS	mg/L	550	538		98	1	90-110	11/04/2024



# SHIPPING DOCUMENTS

P4649

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 3-103024-145313-0081

Date Shipped: 10/30/2024

Carrier Name: FedEx

Airbill No: 779630334693

DAS #: R36720

Cooler #: TSS SW/TW

Lab: Chemtech Lab

Lab Contact: Yazmeen Gomez

Lab Phone: (908) 728-3147

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
ET-TW-01-20241029	MC0JZ7	Treatment Water/ START	Grab	TSS(14)	2890 (4 C) (1)	TW-01	10/29/2024 12:20	
ET-TW-02-20241029	MC0JZ9	Treatment Water/ START	Grab	TSS(14)	2894 (4 C) (1)	TW-02	10/29/2024 12:30	
ET-TW-03-20241029	MC0K01	Treatment Water/ START	Grab	TSS(14)	2898 (4 C) (1)	TW-03	10/29/2024 12:45	
ET-TW-04-20241029	MC0K04	Treatment Water/ START	Grab	TSS(14)	2905 (4 C) (1)	TW-04	10/29/2024 12:40	
ET-WW-01-20241029	MC0K06	Waste Water/ START	Grab	TSS(14)	2909 (4 C) (1)	WW-01	10/29/2024 12:05	
ET-WW-02-20241029	MC0K08	Waste Water/ START	Grab	TSS(14)	2913 (4 C) (1)	WW-02	10/29/2024 11:20	
ET-WW-04-20241029	MC0K10	Waste Water/ START	Grab	TSS(14)	2917 (4 C) (1)	WW-04	10/29/2024 10:20	
ET-WW-05-20241029	MC0K12	Waste Water/ START	Grab	TSS(14)	2923 (4 C) (1)	WW-05	10/29/2024 11:05	
ET-WW-06-20241029	MC0K14	Waste Water/ START	Grab	TSS(14)	2927 (4 C) (1)	WW-06	10/29/2024 11:50	
ET-WW-08-20241029	MC0K16	Waste Water/ START	Grab	TSS(14)	2931 (4 C) (1)	WW-08	10/29/2024 10:40	

Special Instructions: TSS SW/TW	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key: TSS=Total Suspended Solids	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>[Signature]</i> START	10/30/24 1400	<i>[Signature]</i>	945 10-31-24	IF-Gr#1 38" Custody Seal Intact Top Blk present



**Laboratory Certification**

<b>Certified By</b>	<b>License No.</b>
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488