

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: P4898

ATTENTION : Ava Heiss



Laboratory Certification ID # 20012





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Cover Page

- Order ID : P4898
- Project ID : R36720
 - Client : Tetra Tech, EMI

Lab Sample Number

P4898-01		
P4898-02		
P4898-03		
P4898-04		
P4898-05		
P4898-06		
P4898-09		

Client Sample Number

MC0K64 MC0K65 MC0K66 MC0K67 MC0K68 MC0K69 MC0K70

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: 11/25/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

2.1

Tetra Tech, EMI Project Name: R36720 Project # N/A Chemtech Project # P4898 Test Name: TSS

A. Number of Samples and Date of Receipt:

7 Water samples were received on 11/16/2024.

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:

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
Ε	Indicates the reported value is estimated because of the presence of interference
Μ	Indicates Duplicate injection precision not met.
Ν	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 OR	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 analyzedIndicates 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
Н	Sample Analysis Out Of Hold Time



APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4898

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)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u> </u>
Is the chain of custody signed and complete	
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u> </u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<u> </u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓ ✓ ✓
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<u> </u>
Does the case narrative summarize all QC failure?	
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	<u> </u>

QA Review Signature: SOHIL JODHANI



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OrderID: Client: Contact:	P4898 Tetra Tech, EMI Ava Heiss			OrderDate: Project: Location:	11/18/2024 10: R36720 L51	10:00 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4898-01	МС0К64	WATER			11/14/24 13:40			11/16/24
			TSS	SM2540 D			11/20/24 10:00	
P4898-02	MC0K65	WATER			11/14/24 13:55			11/16/24
			TSS	SM2540 D	15:55		11/20/24 10:00	
P4898-03	MC0K66	WATER			11/14/24 13:50			11/16/24
			TSS	SM2540 D	15.50		11/20/24 10:00	
P4898-04	MC0K67	WATER			11/14/24 14:10			11/16/24
			TSS	SM2540 D			11/20/24 10:00	
P4898-05	MC0K68	WATER			11/14/24 11:35			11/16/24
			TSS	SM2540 D			11/20/24 10:00	
P4898-06	MC0K69	WATER			11/14/24 12:00			11/16/24
			TSS	SM2540 D			11/20/24 10:00	
P4898-09	МС0К70	WATER			11/14/24 10:30			11/16/24
			TSS	SM2540 D			11/20/24 10:00	





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Report of Analysis

,	TSS	1.20	J	1	1.00	4.00	mg/L		11/20/24 10:00	SM 2540 D-15	
]	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
								% Solid:	0		
	Lab Sample ID:	P4898	8-01					Matrix:	WATER		
	Client Sample ID:	MC0	K64					SDG No.:	P4898		
	Project:	R367	20					Date Received:	11/16/24		
	Client:	Tetra	Tech,	EMI				Date Collected:	11/14/24 1	3:40	E
- 1											

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

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

9 of 22

^{* =} indicates the duplicate analysis is not within control limits.



Report of Analysis

5	TSS	1.00 U 1	1.00	4.00	mg/L		11/20/24 10:00	SM 2540 D-15	
1	Parameter	Conc. Qua. D	F MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
						% Solid:	0		J
	Lab Sample ID:	P4898-02				Matrix:	WATER		
	Client Sample ID:	MC0K65				SDG No.:	P4898		ľ
	Project:	R36720				Date Received:	11/16/24		Ľ
	Client:	Tetra Tech, EM	Π			Date Collected:	11/14/24 1	3:55	I,

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Report of Analysis

arameter	Conc.	Qua.	DF	MDL	LOQ / CRQ	L Units	Prep Date	Date Ana.	Ana Met.	
							% Solid:	0		
Lab Sample ID:	P48	98-03					Matrix:	WATER		
Client Sample ID:	MC	0K66					SDG No.:	P4898		P
Project:	R36	720					Date Received:	11/16/24		
Client:	Tetr	a Tech,	EMI				Date Collected:	11/14/24 1	3:50	
	Project: Client Sample ID:	Project: R36 Client Sample ID: MC	Project:R36720Client Sample ID:MC0K66	Project:R36720Date Received:Client Sample ID:MC0K66SDG No.:	Project:R36720Date Received:11/16/24Client Sample ID:MC0K66SDG No.:P4898	Project:R36720Date Received:11/16/24Client Sample ID:MC0K66SDG No.:P4898				

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Report of Analysis

1	ГSS	2.60 J	1 1.00	4.00	mg/L		11/20/24 10:00	SM 2540 D-15	-
ł	Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
						% Solid:	0		J
	Lab Sample ID:	P4898-04				Matrix:	WATER		L
	Client Sample ID:	MC0K67				SDG No.:	P4898		μ
	Project:	R36720				Date Received:	11/16/24		Ľ
	Client:	Tetra Tech	, EMI			Date Collected:	11/14/24 1	4:10	Ľ

- U = Not Detected
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- D = Dilution
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Report of Analysis

-	ГSS	3.80 J	1 1.00	4.00	mg/L		11/20/24 10:00	SM 2540 D-15	
]	Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
						% Solid:	0		J
	Lab Sample ID:	P4898-05				Matrix:	WATER		
	Client Sample ID:	MC0K68				SDG No.:	P4898		Р
	Project:	R36720				Date Received:	11/16/24		
	Client:	Tetra Tech,	EMI			Date Collected:	11/14/24 1	1:35	

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Report of Analysis

TSS	1.80 J	1 1.00	4.00	mg/L		11/20/24 10:00	SM 2540 D-15	
Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
					% Solid:	0		J
Lab Sample ID:	P4898-06				Matrix:	WATER		
Client Sample ID:	MC0K69				SDG No.:	P4898		
Project:	R36720				Date Received:	11/16/24		Ц
Client:	Tetra Tech	, EMI			Date Collected:	11/14/24 1	2:00	

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- LOD = Limit of Detection
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Report of Analysis

arameter	Conc.	Qua.	DF	MDL	LOQ / CR	QL Units	% Solid: Prep Date	0 Date Ana.	Ana Met.)
							% Solid:	0)
							0/ 0 111	0		
Lab Sample ID:	P48	98-09					Matrix:	WATER		L
Client Sample ID:	MC	0K70					SDG No.:	P4898		ľ
Project:	R36	720					Date Received:	11/16/24		Ľ
Client:	Tetr	a Tech,	EMI				Date Collected:	11/14/24 1	0:30	
	Project: Client Sample ID:	Project: R36 Client Sample ID: MC	Project:R36720Client Sample ID:MC0K70	Project:R36720Date Received:Client Sample ID:MC0K70SDG No.:	Project:R36720Date Received:11/16/24Client Sample ID:MC0K70SDG No.:P4898	Project:R36720Date Received:11/16/24Client Sample ID:MC0K70SDG No.:P4898				

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<u>QC RESULT</u> <u>SUMMARY</u>

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Preparation	Blank Summary
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Client:	Tetra Tech, EMI				SDG No.:	P4898	
Project:	R36720						
Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: TSS	LB133537BL mg/L	< 2.0000	2.0000	U	1	4	11/20/2024



Duplicate Sample Summary

l							
Client ID:	MC0K69DUP		Percent Soli	ids for Spil	ke Sample:	0	
Project:	R36720		Sample ID:	P	4898-06		
Client:	Tetra Tech, EMI		SDG No.:	P48	398		

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P4898



A B C D

Laboratory	Control	Sampl	e Summary
	001101 01	~	

Client: Project:	Tetra Tech, EMI R36720				SDG Run	No.: No.:	P4898 LB133537		
Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133537BS								
TSS		mg/L	550	544		99	1	90-110	11/20/2024



<u>SHIPPING</u> DOCUMENTS

6

DateShipped: 11/15/2024 CarrierName: FedEx AirbillNo: 7799 8122 4861	5/2024 5/2024 2 4861			DA	DAS #: R36720 Cooler #: TSS		NO: 3-111324-161309-0099 Lab: Chemtech Lab Lab Contact: Yazmeen Gomez Lab Phone: (908) 728-3147	Lab: Chemtech Lab Lab: Chemtech Lab Lab Contact: Yazmeen Gomez Lab Phone: (908) 728-3147
Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	ound Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
ET-TW-02- 20241114	MC0K64	Treatment Water/ START	Grab	TSS(14)	3051 (4 C) (1)	TW-02	11/14/2024 13:40	
ET-TW-03- 20241114	MC0K65	Treatment Water/ START	Grab	TSS(14)	3054 (4 C) (1)	TW-03	11/14/2024 13:55	
ET-TW-04- 20241114	* MC0K66	Treatment Water/ START	Grab	TSS(14)	3057 (4 C) (1)	TW-04	11/14/2024 13:50	
ET-SW-01- 20241114	, MC0K67	Surface Water/ START	Grab	TSS(14)	3060 (4 C) (1)	SW-01	11/14/2024 14:10	
ET-SW-02- 20241114	, WCOK68	Surface Water/ START	Grab	TSS(14)	3063 (4 C) (1)	SW-02	11/14/2024 11:35	
ET-SW-03- 20241114	, MC0K69	Surface Water/ START	Grab	TSS(14)	3066 (4 C), 3089 (4 C), 3090 (4 C) (3)	SW-03	11/14/2024 12:00	
ET-SW-04- 20241114	MC0K70	Surface Water/ START	Grab	TSS(14)	3069 (4 C) (1)	SW-04	11/14/2024 10:30	
-	-					Shipment for Case Complete? N	Complete? N	
3090 - Special Instructions: TSS	structions: TSS	E1-3VV-03-2024111	4 1 ag subb, 1	E 1-SVV-U3-ZUZ411114	3090 - Special Instructions: TSS	Imples Transferi	Samples Transferred From Chain of Custody #	Custody #
Iteme/Descon	Polinguished by (Signature	w (Cignoture and Or	and Organization)	Dato/Timo		DataTimo	Comple Condition Hone Destint	
Sample Drop off	EMALLA	IN AT	fict	1/18/24	Received by (Signature and Organization)	h2-91-11	TR ant	+ 2.1
0	0				Received by (Signature and Organization)			1 -1

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Laboratory Certification

Certified By	License No.
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