Alliance
TECHNICAL GROUP

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

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 :   P4725

ATTENTION :   Ava Heiss

Laboratory Certification ID # 20012

Table Of Contents for P4725

Alliance
TECHNICAL GROUP

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

Cover Page

Order ID :   P4725

Project ID :   R36720

Client :   Tetra Tech, EMI

Lab Sample Number	Client Sample Number
P4725-01	MC0K03
P4725-02	MC0K30
P4725-03	MC0K31
P4725-04	MC0K32
P4725-05	MC0K49
P4725-06	MC0K50
P4725-07	MC0K51

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: 11/18/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Alliance
TECHNICAL GROUP

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 # P4725
Test Name: TSS

A. Number of Samples and Date of Receipt:
7 Water samples were received on 11/06/2024.

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
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

QA Control # A3040961

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #:   P4725

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 Castody	✔
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: 11/18/2024**

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

Alliance
TECHNICAL GROUP

LAB CHRONICLE

OrderID:	P4725	**OrderDate:**	11/6/2024 11:06:00 AM
Client:	Tetra Tech, EMI	**Project:**	R36720
Contact:	Ava Heiss	**Location:**	L23

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4725-01	MC0K03	WATER			11/04/24 13:25			11/06/24
			TSS	SM2540 D			11/07/24 09:30	
P4725-02	MC0K30	WATER			11/04/24 13:35			11/06/24
			TSS	SM2540 D			11/07/24 09:30	
P4725-03	MC0K31	WATER			11/04/24 13:45			11/06/24
			TSS	SM2540 D			11/07/24 09:30	
P4725-04	MC0K32	WATER			11/04/24 13:55			11/06/24
			TSS	SM2540 D			11/07/24 09:30	
P4725-05	MC0K49	WATER			11/04/24 14:00			11/06/24
			TSS	SM2540 D			11/07/24 09:30	
P4725-06	MC0K50	WATER			11/04/24 12:30			11/06/24
			TSS	SM2540 D			11/07/24 09:30	
P4725-07	MC0K51	WATER			11/04/24 11:15			11/06/24
			TSS	SM2540 D			11/07/24 09:30	

SAMPLE DATA

Alliance
TECHNICAL GROUP

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/04/24 13:25
Project:	R36720	Date Received:	11/06/24
Client Sample ID:	MC0K03	SDG No.:	P4725
Lab Sample ID:	P4725-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	38.4		1	1.00	4.00	mg/L		11/07/24 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

**284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922**

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/04/24 13:35
Project:	R36720	Date Received:	11/06/24
Client Sample ID:	MC0K30	SDG No.:	P4725
Lab Sample ID:	P4725-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	12.2		1	1.00	4.00	mg/L		11/07/24 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

Alliance
TECHNICAL GROUP

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/04/24 13:45
Project:	R36720	Date Received:	11/06/24
Client Sample ID:	MC0K31	SDG No.:	P4725
Lab Sample ID:	P4725-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	2.00	J	1	1.00	4.00	mg/L		11/07/24 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

Alliance
TECHNICAL GROUP

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

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/04/24 13:55
Project:	R36720		Date Received:	11/06/24
Client Sample ID:	MC0K32		SDG No.:	P4725
Lab Sample ID:	P4725-04		Matrix:	WATER
			% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.40	J	1	1.00	4.00	mg/L		11/07/24 09:30	SM 2540 D-15

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	* = indicates the duplicate analysis is not within control limits.
LOD = Limit of Detection	E = Indicates the reported value is estimated because of the presence
D = Dilution	of interference.
Q = indicates LCS control criteria did not meet requirements	OR = Over Range
H = Sample Analysis Out Of Hold Time	N =Spiked sample recovery not within control limits

Alliance
TECHNICAL GROUP

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/04/24 14:00
Project:	R36720	Date Received:	11/06/24
Client Sample ID:	MC0K49	SDG No.:	P4725
Lab Sample ID:	P4725-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.00	J	1	1.00	4.00	mg/L		11/07/24 09:30	SM 2540 D-15

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	* = indicates the duplicate analysis is not within control limits.
LOD = Limit of Detection	E = Indicates the reported value is estimated because of the presence
D = Dilution	of interference.
Q = indicates LCS control criteria did not meet requirements	OR = Over Range
H = Sample Analysis Out Of Hold Time	N =Spiked sample recovery not within control limits

Alliance
TECHNICAL GROUP

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/04/24 12:30
Project:	R36720	Date Received:	11/06/24
Client Sample ID:	MC0K50	SDG No.:	P4725
Lab Sample ID:	P4725-06	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	2.60	J	1	1.00	4.00	mg/L		11/07/24 09:30	SM 2540 D-15

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	* = indicates the duplicate analysis is not within control limits.
LOD = Limit of Detection	E = Indicates the reported value is estimated because of the presence
D = Dilution	of interference.
Q = indicates LCS control criteria did not meet requirements	OR = Over Range
H = Sample Analysis Out Of Hold Time	N =Spiked sample recovery not within control limits

Alliance
TECHNICAL GROUP

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

A
B
C
D

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/04/24 11:15
Project:	R36720	Date Received:	11/06/24
Client Sample ID:	MC0K51	SDG No.:	P4725
Lab Sample ID:	P4725-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.00	J	1	1.00	4.00	mg/L		11/07/24 09:30	SM 2540 D-15

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	* = indicates the duplicate analysis is not within control limits.
LOD = Limit of Detection	E = Indicates the reported value is estimated because of the presence
D = Dilution	of interference.
Q = indicates LCS control criteria did not meet requirements	OR = Over Range
H = Sample Analysis Out Of Hold Time	N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

![Alliance Technical Group logo]

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

Preparation Blank Summary

Client:	Tetra Tech, EMI		SDG No.:	P4725
Project:	R36720			

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	**LB133335BL**						
TSS	mg/L	< 2.0000	2.0000	U	1	4	11/07/2024

Alliance
TECHNICAL GROUP

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

Duplicate Sample Summary

Client:	Tetra Tech, EMI	SDG No.:	P4725
Project:	R36720	Sample ID:	P4736-02
Client ID:	COMPDUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TSS	mg/L	+/-5	493		511		1	3.59		11/07/2024

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

Laboratory Control Sample Summary

Client:	Tetra Tech, EMI	SDG No.:	P4725
Project:	R36720	Run No.:	LB133335

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB133335BS**								
TSS	mg/L	550	536		98	1	90-110	11/07/2024

SHIPPING DOCUMENTS

P4725

USEPA CLP COC (LAB COPY)

DateShipped: 11/5/2024
CarrierName: FedEx
AirbillNo: 7797 4999 1583

CHAIN OF CUSTODY RECORD

DAS #: R36720
Cooler #: TSS

No: 3-110524-104703-0090

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-01-20241104	MC0K03	Treatment Water/ START	Grab	TSS(14)	2902 (4 C) (1)	TW-01	11/04/2024 13:25	
ET-TW-02-20241104	MC0K30	Treatment Water/ START	Grab	TSS(14)	2962 (4 C) (1)	TW-02	11/04/2024 13:35	
ET-TW-03-20241104	MC0K31	Treatment Water/ START	Grab	TSS(14)	2966 (4 C) (1)	TW-03	11/04/2024 13:45	
ET-TW-04-20241104	MC0K32	Treatment Water/ START	Grab	TSS(14)	2970 (4 C) (1)	TW-04	11/04/2024 13:55	
ET-SW-01-20241104	MC0K49	Surface Water/ START	Grab	TSS(14)	3010 (4 C) (1)	SW-01	11/04/2024 14:00	
ET-SW-02-20241104	MC0K50	Surface Water/ START	Grab	TSS(14)	3013 (4 C) (1)	SW-02	11/04/2024 12:30	
ET-SW-04-20241104	MC0K51	Surface Water/ START	Grab	TSS(14)	3016 (4 C) (1)	SW-04	11/04/2024 11:15	

Special Instructions: Total Suspended Solids

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
Sample Ship	[signature] START	11/5/24/1500	[signature]	11-6-24 1015	2.3°C IN GUN #1 custody seals intact Temp bottle present

Laboratory Address and Contact	Tetra Tech Project Lead	Sample Coordinator
Alliance Technical Group, LLC – Chemtech Lab 284 Sheffield St Mountainside, NJ 07092

Yazmeen Gomez (908) 728-3147 Yazmeen.Gomez@alliancetg.com | Jessie Smith Tetra Tech 240 Continental Drive Suite 200 Newark, DE 19713

(540) 878-8966 jessie.smith@tetratech.com | Ava Heiss (302) 397-1105 ava.heiss@tetratech.com |

Site location: Pennsylvania

Please reference **R36720** on all deliverables (L4 reports, EDDs, invoice, login acknowledgement).

Sample Numbers:

These are the alphanumeric ids listed on the Chain of Custody (COC) in the 2nd column (ex. C0AA0). Please use these ids for all sample login acknowledgement forms, reports, and EDDs.

Reporting Limits (RL):

Laboratory will report non-detects at the RLs (adjusted RLs to account for % moisture, dilutions, sample volume if applicable) in the reports and EDD files. Results for non-detects in the EDDs should not be an empty cell, but should be reported as the RL (adjusted as necessary) with a "U" qualifier in the lab qualifier column. Analytical results are to be reported for detections below the reporting limit (RL) down to the method detection limit with a "J" flag.

Deliverables: Email a **Level 2, Level 4 report with EDDs in EQuIS* format** to Ava Heiss and Jessie Smith.
Sampling Dates: October 14, 2024 – November 22, 2024
Turnaround Time: 14 CD TAT for Level 2 and Level 4 reports with Equis EDDs

Parameter/Matrix	Method	Number of Samples
Total Suspended Solids/Surface Water	SM2540D	101 samples
Oil and Grease/Surface Water and Aqueous Blanks	EPA 1664A	101 samples 6 blanks

*EDD file in EPA Region 2 format (i.e., EQuis EDD, in excel). For instructions, click link:
*Region 2 format is the same as Region 3 format
(https://www.epa.gov/superfund/region-2-superfund-electronic-data-submission-documents

CHEMTECH

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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

QA Control Code: A2070148