

ANALYTICAL RESULTS SUMMARY

METALS

PROJECT NAME : R37063 - PA

TETRA TECH, EMI

240 Continental Drive, Suite 200

Newark, DE - 19713

Phone No: 302-738-7551

ORDER ID : Q3291

ATTENTION : Ava Heiss



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3291

Project ID : R37063 - PA

Client : Tetra Tech, EMI

Lab Sample Number

Q3291-05
Q3291-06
Q3291-07
Q3291-08

Client Sample Number

MC0AX0
MC0AX1
MC0AX2
MC0AX3

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 :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 1:47 pm, Oct 21, 2025

Date: 10/10/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech, EMI

Project Name: R37063 - PA

Project Manager : Ava Heiss

Order ID # Q3291

Test Name: Dissolved ICP-TAL Metals,Dissolved Mercury,Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:

4 Water samples were received on 10/06/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals,Dissolved Mercury,Mercury,Metals ICP-TAL. This data package contains results for Dissolved ICP-TAL Metals,Dissolved Mercury, Mercury, Metals ICP-TAL.

C. Analytical Techniques:

The analysis of Dissolved ICP-TAL Metals,Metals ICP-TAL was based on method 6020B, digestion based on method 3010 (waters). The analysis and digestion of Dissolved Mercury,Mercury was based on method 7470A.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike (MC0AX2MS) analysis met criteria for all compounds except for Silver due to Chemical Interference during Digestion Process.

The Matrix Spike Duplicate (MC0AX2MSD) analysis met criteria for all compounds except for Silver due to Chemical Interference during Digestion Process.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

The Post Digest Spike (MC0AX2A) analysis met criteria for all compounds except for Silver due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

Sample Q3291-05, Q3291-07 were analyzed as Total Metal and Sample Q3291-06, Q3291-08 were analyzed as Dissolved Metal.

Internal standard 89Y(1 and 2) were out Side qc limit for samples Q3291-07+Qcs and Q3291-08 in Original so for these samples affected parameters are reported from 5X Dilution.

The temperature of the samples at the time of receipt was 11.3°C.

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_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 1:47 pm, Oct 21, 2025

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 #: Q3291

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: 10/10/2025

Hit Summary Sheet SW-846

SDG No.: Q3291
Client: Tetra Tech, EMI

Order ID: Q3291
Project ID: R37063 - PA

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MC0AX0								
Q3291-05	MC0AX0	Water	Aluminum	22.6		1.94	20.0	ug/L
Q3291-05	MC0AX0	Water	Antimony	3.64		0.11	2.00	ug/L
Q3291-05	MC0AX0	Water	Arsenic	40.5		0.089	1.00	ug/L
Q3291-05	MC0AX0	Water	Barium	13.9		0.21	10.0	ug/L
Q3291-05	MC0AX0	Water	Calcium	88400		45.7	500	ug/L
Q3291-05	MC0AX0	Water	Chromium	0.86	J	0.21	2.00	ug/L
Q3291-05	MC0AX0	Water	Cobalt	0.54	J	0.070	1.00	ug/L
Q3291-05	MC0AX0	Water	Copper	2.61		0.30	2.00	ug/L
Q3291-05	MC0AX0	Water	Iron	864		7.81	50.0	ug/L
Q3291-05	MC0AX0	Water	Lead	0.29	J	0.21	1.00	ug/L
Q3291-05	MC0AX0	Water	Magnesium	17700		19.5	500	ug/L
Q3291-05	MC0AX0	Water	Manganese	266		0.43	1.00	ug/L
Q3291-05	MC0AX0	Water	Nickel	2.58		0.27	1.00	ug/L
Q3291-05	MC0AX0	Water	Potassium	15300		36.4	500	ug/L
Q3291-05	MC0AX0	Water	Silver	0.080	J	0.060	1.00	ug/L
Q3291-05	MC0AX0	Water	Sodium	325000		128	500	ug/L
Q3291-05	MC0AX0	Water	Thallium	0.18	J	0.060	1.00	ug/L
Q3291-05	MC0AX0	Water	Vanadium	2.45	J	0.077	5.00	ug/L
Q3291-05	MC0AX0	Water	Zinc	6.44		1.25	5.00	ug/L
Client ID : MC0AX1								
Q3291-06	MC0AX1	Water	Aluminum	15.1	J	1.94	20.0	ug/L
Q3291-06	MC0AX1	Water	Antimony	3.46		0.11	2.00	ug/L
Q3291-06	MC0AX1	Water	Arsenic	41.0		0.089	1.00	ug/L
Q3291-06	MC0AX1	Water	Barium	13.6		0.21	10.0	ug/L
Q3291-06	MC0AX1	Water	Calcium	87400		45.7	500	ug/L
Q3291-06	MC0AX1	Water	Chromium	0.40	J	0.21	2.00	ug/L
Q3291-06	MC0AX1	Water	Cobalt	0.45	J	0.070	1.00	ug/L
Q3291-06	MC0AX1	Water	Copper	1.58	J	0.30	2.00	ug/L
Q3291-06	MC0AX1	Water	Iron	838		7.81	50.0	ug/L
Q3291-06	MC0AX1	Water	Magnesium	17100		19.5	500	ug/L
Q3291-06	MC0AX1	Water	Manganese	262		0.43	1.00	ug/L
Q3291-06	MC0AX1	Water	Nickel	1.89		0.27	1.00	ug/L
Q3291-06	MC0AX1	Water	Potassium	14700		36.4	500	ug/L
Q3291-06	MC0AX1	Water	Sodium	322000		128	500	ug/L
Q3291-06	MC0AX1	Water	Thallium	0.15	J	0.060	1.00	ug/L
Q3291-06	MC0AX1	Water	Vanadium	2.49	J	0.077	5.00	ug/L
Q3291-06	MC0AX1	Water	Zinc	3.03	J	1.25	5.00	ug/L

Hit Summary Sheet

SW-846

SDG No.: Q3291
Client: Tetra Tech, EMI

Order ID: Q3291
Project ID: R37063 - PA

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MC0AX2								
Q3291-07	MC0AX2	Water	Aluminum	21.0		1.94	20.0	ug/L
Q3291-07	MC0AX2	Water	Antimony	3.45		0.11	2.00	ug/L
Q3291-07	MC0AX2	Water	Arsenic	43.0	D	0.45	5.00	ug/L
Q3291-07	MC0AX2	Water	Barium	13.9		0.21	10.0	ug/L
Q3291-07	MC0AX2	Water	Calcium	87500		45.7	500	ug/L
Q3291-07	MC0AX2	Water	Chromium	0.83	J	0.21	2.00	ug/L
Q3291-07	MC0AX2	Water	Cobalt	0.51	J	0.070	1.00	ug/L
Q3291-07	MC0AX2	Water	Copper	2.49		0.30	2.00	ug/L
Q3291-07	MC0AX2	Water	Iron	849		7.81	50.0	ug/L
Q3291-07	MC0AX2	Water	Lead	0.43	J	0.21	1.00	ug/L
Q3291-07	MC0AX2	Water	Magnesium	17400		19.5	500	ug/L
Q3291-07	MC0AX2	Water	Manganese	270		0.43	1.00	ug/L
Q3291-07	MC0AX2	Water	Nickel	2.03		0.27	1.00	ug/L
Q3291-07	MC0AX2	Water	Potassium	15300		36.4	500	ug/L
Q3291-07	MC0AX2	Water	Sodium	324000		128	500	ug/L
Q3291-07	MC0AX2	Water	Thallium	0.16	J	0.060	1.00	ug/L
Q3291-07	MC0AX2	Water	Vanadium	2.49	J	0.077	5.00	ug/L
Q3291-07	MC0AX2	Water	Zinc	5.06		1.25	5.00	ug/L
Client ID : MC0AX3								
Q3291-08	MC0AX3	Water	Aluminum	16.8	J	1.94	20.0	ug/L
Q3291-08	MC0AX3	Water	Antimony	3.58		0.11	2.00	ug/L
Q3291-08	MC0AX3	Water	Arsenic	43.3	D	0.45	5.00	ug/L
Q3291-08	MC0AX3	Water	Barium	14.1		0.21	10.0	ug/L
Q3291-08	MC0AX3	Water	Calcium	91100		45.7	500	ug/L
Q3291-08	MC0AX3	Water	Chromium	0.44	J	0.21	2.00	ug/L
Q3291-08	MC0AX3	Water	Cobalt	0.51	J	0.070	1.00	ug/L
Q3291-08	MC0AX3	Water	Copper	1.97	J	0.30	2.00	ug/L
Q3291-08	MC0AX3	Water	Iron	851		7.81	50.0	ug/L
Q3291-08	MC0AX3	Water	Lead	0.38	J	0.21	1.00	ug/L
Q3291-08	MC0AX3	Water	Magnesium	17700		19.5	500	ug/L
Q3291-08	MC0AX3	Water	Manganese	267		0.43	1.00	ug/L
Q3291-08	MC0AX3	Water	Nickel	2.03		0.27	1.00	ug/L
Q3291-08	MC0AX3	Water	Potassium	15100		36.4	500	ug/L
Q3291-08	MC0AX3	Water	Silver	0.070	J	0.060	1.00	ug/L
Q3291-08	MC0AX3	Water	Sodium	332000		128	500	ug/L
Q3291-08	MC0AX3	Water	Thallium	0.22	J	0.060	1.00	ug/L
Q3291-08	MC0AX3	Water	Vanadium	2.46	J	0.077	5.00	ug/L
Q3291-08	MC0AX3	Water	Zinc	3.73	J	1.25	5.00	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/03/25
Project:	R37063 - PA	Date Received:	10/06/25
Client Sample ID:	MC0AX0	SDG No.:	Q3291
Lab Sample ID:	Q3291-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	22.6		1	1.94	20.0	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-36-0	Antimony	3.64		1	0.11	2.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-38-2	Arsenic	40.5		1	0.089	1.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-39-3	Barium	13.9		1	0.21	10.0	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-41-7	Beryllium	0.32	U	1	0.32	1.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-43-9	Cadmium	0.34	U	1	0.34	1.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-70-2	Calcium	88400		1	45.7	500	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-47-3	Chromium	0.86	J	1	0.21	2.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-48-4	Cobalt	0.54	J	1	0.070	1.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-50-8	Copper	2.61		1	0.30	2.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7439-89-6	Iron	864		1	7.81	50.0	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7439-92-1	Lead	0.29	J	1	0.21	1.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7439-95-4	Magnesium	17700		1	19.5	500	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7439-96-5	Manganese	266		1	0.43	1.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7439-97-6	Mercury	0.076	U	1	0.076	0.20	ug/L	10/06/25 14:20	10/07/25 11:18	7470A	
7440-02-0	Nickel	2.58		1	0.27	1.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-09-7	Potassium	15300		1	36.4	500	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7782-49-2	Selenium	2.90	U	1	2.90	5.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-22-4	Silver	0.080	JN	1	0.060	1.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-23-5	Sodium	325000		1	128	500	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-28-0	Thallium	0.18	J	1	0.060	1.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-62-2	Vanadium	2.45	J	1	0.077	5.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A
7440-66-6	Zinc	6.44		1	1.25	5.00	ug/L	10/06/25 16:15	10/07/25 17:57	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

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

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:	10/03/25
Project:	R37063 - PA	Date Received:	10/06/25
Client Sample ID:	MC0AX1	SDG No.:	Q3291
Lab Sample ID:	Q3291-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	15.1	J	1	1.94	20.0	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-36-0	Antimony	3.46		1	0.11	2.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-38-2	Arsenic	41.0		1	0.089	1.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-39-3	Barium	13.6		1	0.21	10.0	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-41-7	Beryllium	0.32	U	1	0.32	1.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-43-9	Cadmium	0.34	U	1	0.34	1.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-70-2	Calcium	87400		1	45.7	500	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-47-3	Chromium	0.40	J	1	0.21	2.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-48-4	Cobalt	0.45	J	1	0.070	1.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-50-8	Copper	1.58	J	1	0.30	2.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7439-89-6	Iron	838		1	7.81	50.0	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7439-92-1	Lead	0.21	U	1	0.21	1.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7439-95-4	Magnesium	17100		1	19.5	500	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7439-96-5	Manganese	262		1	0.43	1.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7439-97-6	Mercury	0.076	U	1	0.076	0.20	ug/L	10/06/25 14:20	10/07/25 11:27	7470A	
7440-02-0	Nickel	1.89		1	0.27	1.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-09-7	Potassium	14700		1	36.4	500	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7782-49-2	Selenium	2.90	U	1	2.90	5.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-22-4	Silver	0.060	UN	1	0.060	1.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-23-5	Sodium	322000		1	128	500	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-28-0	Thallium	0.15	J	1	0.060	1.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-62-2	Vanadium	2.49	J	1	0.077	5.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A
7440-66-6	Zinc	3.03	J	1	1.25	5.00	ug/L	10/06/25 16:15	10/07/25 18:01	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	DISSOLVED METALS-TAL			

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

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:	10/03/25
Project:	R37063 - PA	Date Received:	10/06/25
Client Sample ID:	MC0AX2	SDG No.:	Q3291
Lab Sample ID:	Q3291-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	21.0		1	1.94	20.0	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7440-36-0	Antimony	3.45		1	0.11	2.00	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7440-38-2	Arsenic	43.0	D	5	0.45	5.00	ug/L	10/06/25 16:15	10/07/25 18:35	6020B	3010A
7440-39-3	Barium	13.9		1	0.21	10.0	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7440-41-7	Beryllium	0.32	U	1	0.32	1.00	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7440-43-9	Cadmium	0.34	U	1	0.34	1.00	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7440-70-2	Calcium	87500		1	45.7	500	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7440-47-3	Chromium	0.83	J	1	0.21	2.00	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7440-48-4	Cobalt	0.51	J	1	0.070	1.00	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7440-50-8	Copper	2.49		1	0.30	2.00	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7439-89-6	Iron	849		1	7.81	50.0	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7439-92-1	Lead	0.43	J	1	0.21	1.00	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7439-95-4	Magnesium	17400		1	19.5	500	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7439-96-5	Manganese	270		1	0.43	1.00	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7439-97-6	Mercury	0.076	U	1	0.076	0.20	ug/L	10/06/25 14:20	10/07/25 11:29	7470A	
7440-02-0	Nickel	2.03		1	0.27	1.00	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7440-09-7	Potassium	15300		1	36.4	500	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7782-49-2	Selenium	14.5	UD	5	14.5	25.0	ug/L	10/06/25 16:15	10/07/25 18:35	6020B	3010A
7440-22-4	Silver	0.060	UN	1	0.060	1.00	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7440-23-5	Sodium	324000		1	128	500	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7440-28-0	Thallium	0.16	J	1	0.060	1.00	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7440-62-2	Vanadium	2.49	J	1	0.077	5.00	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A
7440-66-6	Zinc	5.06		1	1.25	5.00	ug/L	10/06/25 16:15	10/07/25 18:04	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

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

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:	10/03/25
Project:	R37063 - PA	Date Received:	10/06/25
Client Sample ID:	MC0AX3	SDG No.:	Q3291
Lab Sample ID:	Q3291-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	16.8	J	1	1.94	20.0	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7440-36-0	Antimony	3.58		1	0.11	2.00	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7440-38-2	Arsenic	43.3	D	5	0.45	5.00	ug/L	10/06/25 16:15	10/07/25 18:54	6020B	3010A
7440-39-3	Barium	14.1		1	0.21	10.0	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7440-41-7	Beryllium	0.32	U	1	0.32	1.00	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7440-43-9	Cadmium	0.34	U	1	0.34	1.00	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7440-70-2	Calcium	91100		1	45.7	500	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7440-47-3	Chromium	0.44	J	1	0.21	2.00	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7440-48-4	Cobalt	0.51	J	1	0.070	1.00	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7440-50-8	Copper	1.97	J	1	0.30	2.00	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7439-89-6	Iron	851		1	7.81	50.0	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7439-92-1	Lead	0.38	J	1	0.21	1.00	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7439-95-4	Magnesium	17700		1	19.5	500	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7439-96-5	Manganese	267		1	0.43	1.00	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7439-97-6	Mercury	0.076	U	1	0.076	0.20	ug/L	10/06/25 14:20	10/07/25 11:32	7470A	
7440-02-0	Nickel	2.03		1	0.27	1.00	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7440-09-7	Potassium	15100		1	36.4	500	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7782-49-2	Selenium	14.5	UD	5	14.5	25.0	ug/L	10/06/25 16:15	10/07/25 18:54	6020B	3010A
7440-22-4	Silver	0.070	JN	1	0.060	1.00	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7440-23-5	Sodium	332000		1	128	500	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7440-28-0	Thallium	0.22	J	1	0.060	1.00	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7440-62-2	Vanadium	2.46	J	1	0.077	5.00	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A
7440-66-6	Zinc	3.73	J	1	1.25	5.00	ug/L	10/06/25 16:15	10/07/25 18:28	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	DISSOLVED METALS-TAL			

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

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

LAB CHRONICLE

OrderID:	Q3291	OrderDate:	10/6/2025 10:30:11 AM
Client:	Tetra Tech, EMI	Project:	R37063 - PA
Contact:	Ava Heiss	Location:	D21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3291-05	MC0AX0	Water			10/03/25			10/06/25
			Mercury	7470A		10/06/25	10/07/25	
			Metals ICP-TAL	6020B		10/06/25	10/07/25	
Q3291-06	MC0AX1	Water			10/03/25			10/06/25
			Dissolved ICP-TAL Metals	6020B		10/06/25	10/07/25	
			Dissolved Mercury	7470A		10/06/25	10/07/25	
Q3291-07	MC0AX2	Water			10/03/25			10/06/25
			Mercury	7470A		10/06/25	10/07/25	
			Metals ICP-TAL	6020B		10/06/25	10/07/25	
Q3291-08	MC0AX3	Water			10/03/25			10/06/25
			Dissolved ICP-TAL Metals	6020B		10/06/25	10/07/25	
			Dissolved Mercury	7470A		10/06/25	10/07/25	



SHIPPING DOCUMENTS

Q3291

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 3-100325-113651-0031

DateShipped: 10/3/2025

Lab: Alliance Technical Group

CarrierName: FedEx

Case #: R3706

Lab Contact: Yazmeen Gomez

AirbillNo: 8848 8688 4018

Cooler #: 1

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
RR-SSA-GW04-RAW-20251003	MC0AX0	Ground Water/ START	Grab	ICPMS_Hg(2)	1287 (HNO3 pH<2, 6C) (1)	GW04-RAW	10/03/2025 15:30	pH 1.3
RR-SSA-GW04-RAW-FF-20250929	MC0AX1	Ground Water/ START	Grab	DISS_ICPMS_Hg(2)	1288 (HNO3 pH<2, 6C) (1)	GW04-RAW	10/03/2025 15:30	pH 1.3
RR-SSA-GW-DUP04-RAW-20251003	MC0AX2	Ground Water/ START	Grab	ICPMS_Hg(2)	1289 (HNO3 pH<2, 6C) (1)	GW03-RAW	10/03/2025 12:00	pH 1.3
RR-SSA-GW-DUP04-RAW-FF-20251003	MC0AX3	Ground Water/ START	Grab	DISS_ICPMS_Hg(2)	1290 (HNO3 pH<2, 6C) (1)	GW04-RAW	10/03/2025 12:00	pH 1.3

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key: ICPMS_Hg=CLP ICP-MS Total Metals + Hg, DISS_ICPMS_Hg=CLP ICP-MS Dissolved Metals + Hg	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Shipping	START / <i>[Signature]</i>	10/3/25 17:00	<i>[Signature]</i>	10:00 10/6/25	11.3"
					21.6m # 1

To: Heiss, Ava
Subject: q3291 - Temp

Good afternoon Ava

Just a heads up the cooler was received over temp range.

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com     

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312