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

DATA PACKAGE

GENERAL CHEMISTRY
METALS
SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q1985

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

Table Of Contents for Q1985

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : Q1985

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q1985-01	RW8-BW-20250507
Q1985-02	TB-20250507

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: 5/19/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager # Ernie Wu
Order ID # Q1985
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
2 Water samples were received on 05/08/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, pH, SVOC-SIMGroup1, SVOC-TCL BNA - 20, TSS and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The RPD met criteria.
The Blank Spike met requirements for all samples.
The Blank Spike Duplicate met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

The not QT review data is reported in the Miscellaneous.

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

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Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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_____

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager# Ernie Wu
Order ID # Q1985
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
2 Water samples were received on 05/08/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, pH, SVOC-SIMGroup1, SVOC-TCL BNA -20, TSS and VOCMS Group1. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {Q1993-02MS} with File ID: BF142388.D recoveries met the requirements for all compounds except for 1,4-Dioxane[35%] and Diethylphthalate[140%],due to matrix interference.

The MSD {Q1993-03MSD} with File ID: BF142389.D recoveries met the acceptable requirements except for 1,4-Dioxane[36%] and Diethylphthalate[145%],due to matrix interference.

The RPD met criteria .

The Blank Spike for {PB167951BS} with File ID: BF142386.D met requirements for all samples except for 1,4-Dioxane[64%], 4-Chloroaniline[18%],Recovery of these compounds were marginally biased low, Therefore no corrective action was taken.

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

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The % RSD is greater than 20% in the Initial Calibration (8270-BF050525.M) for 2-Nitrophenol, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Butylbenzlphthalate, Bis(2-ethylhexyl)phthalate, Di-n-octyl phthalate these compound are passing on Linear Regression.

The Continuous Calibration File ID BF142384.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene,2-Nitrophenol , 3,3-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline, 4-Nitrophenol and Pentachlorophenol ,are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."
The Sample RW8-BW-20250507 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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.

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager # Ernie Wu
Order ID # Q1985
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
2 Water samples were received on 05/08/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, pH, SVOC-SIMGroup1, SVOC-TCL BNA - 20, TSS and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibrationmet the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the datasummary forms (i.e. Form Is)."
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial

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Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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.

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager : Ernie Wu
Order ID # Q1985
Test Name: Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:
2 Water samples were received on 05/08/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, pH, SVOC-SIMGroup1, SVOC-TCL BNA - 20, TSS and VOCMS Group1. This data package contains results for Mercury,Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of 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 samples.
The Duplicate (RW8-BW-20250507DUP) analysis met criteria for all samples except for Manganese due to sample matrix interference. The Duplicate (RW8-BW-20250507MSD) analysis met criteria for all samples except for Manganese due to Chemical Interference during Digestion Process.
The Matrix Spike (RW8-BW-20250507MS) analysis met criteria for all samples except for Manganese and Silver due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (IDW-AQ-DRUM-633-05092025MSD) analysis met criteria for all samples except for Mercury due to sample matrix interference. The Matrix Spike Duplicate (RW8-BW-20250507MSD) analysis met criteria for all samples except for Manganese and 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 criteria for all samples.

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).
In analytical sequence LB135794, The % recovery was outside of acceptance limit for Lead and Zinc of CCV05 but, no any sample of this project associated under this CCV.
The Post Digest Spike (RW8-BW-20250507A) analysis met criteria for all samples except for Manganese and Silver due to unknown chemical interferences of matrix with the addition of spike amount after digestion and before analysis , matrix has suppression effect during addition of spike.

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_____

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager : Ernie Wu
Order ID # Q1985
Test Name: pH,TSS

A. Number of Samples and Date of Receipt:
2 Water samples were received on 05/08/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, pH, SVOC-SIMGroup1, SVOC-TCL BNA - 20, TSS and VOCMS Group1. This data package contains results for pH,TSS.

C. Analytical Techniques:
The analysis of pH was based on method 9040C and The analysis of TSS was based on method SM2540 D.

D. QA/ QC Samples:
The Holding Times were met for all samples except for RW8-BW-20250507 of pH as sample was receive out of holding time.
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:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

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.

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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

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1985

	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:** 05/19/2025

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LAB CHRONICLE

OrderID:	Q1985	**OrderDate:**	5/8/2025 10:49:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1985-01	**RW8-BW-20250507**	**Water**			**05/07/25**			**05/08/25**
			VOCMS Group1	8260-Low			05/08/25	
Q1985-02	**TB-20250507**	**Water**			**05/07/25**			**05/08/25**
			VOCMS Group1	8260-Low			05/08/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:									
				0					

Total Voc :

Total Concentration:

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/08/25
Client Sample ID:	RW8-BW-20250507	SDG No.:	Q1985
Lab Sample ID:	Q1985-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046085.D	1		05/08/25 12:55	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/08/25
Client Sample ID:	RW8-BW-20250507	SDG No.:	Q1985
Lab Sample ID:	Q1985-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046085.D	1		05/08/25 12:55	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.6		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.4		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	65700	5.544				
540-36-3	1,4-Difluorobenzene	131000	6.757				
3114-55-4	Chlorobenzene-d5	122000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	50300	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/08/25
Client Sample ID:	RW8-BW-20250507	SDG No.:	Q1985
Lab Sample ID:	Q1985-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046085.D	1		05/08/25 12:55	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/08/25
Client Sample ID:	TB-20250507	SDG No.:	Q1985
Lab Sample ID:	Q1985-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046084.D	1		05/08/25 12:32	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/08/25
Client Sample ID:	TB-20250507	SDG No.:	Q1985
Lab Sample ID:	Q1985-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046084.D	1		05/08/25 12:32	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.4		81 - 118		103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	49.2		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	64100	5.55				
540-36-3	1,4-Difluorobenzene	126000	6.757				
3114-55-4	Chlorobenzene-d5	115000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	49500	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/08/25
Client Sample ID:	TB-20250507	SDG No.:	Q1985
Lab Sample ID:	Q1985-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046084.D	1		05/08/25 12:32	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1985-01	RW8-BW-20250507	1,2-Dichloroethane-d4	50	53.6	107	81	118
		Dibromofluoromethane	50	51.1	102	80	119
		Toluene-d8	50	49.5	99	89	112
		4-Bromofluorobenzene	50	49.3	99	85	114
Q1985-02	TB-20250507	1,2-Dichloroethane-d4	50	51.4	103	81	118
		Dibromofluoromethane	50	49.4	99	80	119
		Toluene-d8	50	49.2	98	89	112
		4-Bromofluorobenzene	50	49.4	99	85	114
VX0508WBL01	VX0508WBL01	1,2-Dichloroethane-d4	50	52.5	105	81	118
		Dibromofluoromethane	50	49.3	99	80	119
		Toluene-d8	50	49.8	100	89	112
		4-Bromofluorobenzene	50	48.3	97	85	114
VX0508WBS01	VX0508WBS01	1,2-Dichloroethane-d4	50	49.8	100	81	118
		Dibromofluoromethane	50	50.2	100	80	119
		Toluene-d8	50	49.1	98	89	112
		4-Bromofluorobenzene	50	48.2	96	85	114
VX0508WBSD0	VX0508WBSD01	1,2-Dichloroethane-d4	50	50.9	102	81	118
		Dibromofluoromethane	50	50.0	100	80	119
		Toluene-d8	50	49.9	100	89	112
		4-Bromofluorobenzene	50	49.4	99	85	114

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low **Datafile :** VX046081.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0508WBS01	Chloromethane	20	18.6	ug/L	93			50	139	
	Vinyl chloride	20	18.5	ug/L	93			58	137	
	Bromomethane	20	17.9	ug/L	90			53	141	
	Chloroethane	20	19.3	ug/L	97			60	138	
	Trichlorofluoromethane	20	19.3	ug/L	97			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93			70	136	
	1,1-Dichloroethene	20	18.4	ug/L	92			71	131	
	Acetone	100	93.0	ug/L	93			39	160	
	Carbon disulfide	20	17.3	ug/L	86			64	133	
	Methyl tert-butyl Ether	20	19.3	ug/L	97			71	124	
	Methylene Chloride	20	17.5	ug/L	88			74	124	
	trans-1,2-Dichloroethene	20	18.8	ug/L	94			75	124	
	1,1-Dichloroethane	20	19.4	ug/L	97			77	125	
	2-Butanone	100	96.5	ug/L	97			56	143	
	Carbon Tetrachloride	20	18.9	ug/L	95			72	136	
	cis-1,2-Dichloroethene	20	19.5	ug/L	98			78	123	
	Chloroform	20	19.8	ug/L	99			79	124	
	1,1,1-Trichloroethane	20	19.2	ug/L	96			74	131	
	Methylcyclohexane	20	18.2	ug/L	91			72	132	
	Benzene	20	19.4	ug/L	97			79	120	
	1,2-Dichloroethane	20	18.9	ug/L	95			73	128	
	Trichloroethene	20	18.6	ug/L	93			79	123	
	1,2-Dichloropropane	20	19.5	ug/L	98			78	122	
	Bromodichloromethane	20	19.2	ug/L	96			79	125	
	4-Methyl-2-Pentanone	100	97.8	ug/L	98			67	130	
	Toluene	20	19.1	ug/L	96			80	121	
	t-1,3-Dichloropropene	20	17.8	ug/L	89			73	127	
	cis-1,3-Dichloropropene	20	18.6	ug/L	93			75	124	
	1,1,2-Trichloroethane	20	19.3	ug/L	97			80	119	
	2-Hexanone	100	98.2	ug/L	98			57	139	
	Dibromochloromethane	20	19.3	ug/L	97			74	126	
	Tetrachloroethene	20	18.9	ug/L	95			74	129	
	Chlorobenzene	20	18.8	ug/L	94			82	118	
	Ethyl Benzene	20	19.6	ug/L	98			79	121	
	m/p-Xylenes	40	39.2	ug/L	98			80	121	
	o-Xylene	20	20.1	ug/L	101			78	122	
	Styrene	20	19.9	ug/L	100			78	123	
	Bromoform	20	18.7	ug/L	94			66	130	
	Isopropylbenzene	20	20.2	ug/L	101			72	131	
	1,1,2,2-Tetrachloroethane	20	19.5	ug/L	98			71	121	
	1,3-Dichlorobenzene	20	19.5	ug/L	98			80	119	
	1,4-Dichlorobenzene	20	19.1	ug/L	96			79	118	
	1,2-Dichlorobenzene	20	20.1	ug/L	101			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low **Datafile :** VX046082.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0508WBSD01	Chloromethane	20	19.2	ug/L	96	3		50	139	20
	Vinyl chloride	20	18.0	ug/L	90	3		58	137	20
	Bromomethane	20	18.0	ug/L	90	0		53	141	20
	Chloroethane	20	19.0	ug/L	95	2		60	138	20
	Trichlorofluoromethane	20	19.2	ug/L	96	1		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97	4		70	136	20
	1,1-Dichloroethene	20	18.3	ug/L	92	0		71	131	20
	Acetone	100	98.2	ug/L	98	5		39	160	20
	Carbon disulfide	20	17.4	ug/L	87	1		64	133	20
	Methyl tert-butyl Ether	20	20.0	ug/L	100	3		71	124	20
	Methylene Chloride	20	18.4	ug/L	92	4		74	124	20
	trans-1,2-Dichloroethene	20	19.1	ug/L	96	2		75	124	20
	1,1-Dichloroethane	20	19.8	ug/L	99	2		77	125	20
	2-Butanone	100	100	ug/L	100	3		56	143	20
	Carbon Tetrachloride	20	18.9	ug/L	95	0		72	136	20
	cis-1,2-Dichloroethene	20	19.8	ug/L	99	1		78	123	20
	Chloroform	20	19.9	ug/L	100	1		79	124	20
	1,1,1-Trichloroethane	20	19.6	ug/L	98	2		74	131	20
	Methylcyclohexane	20	18.5	ug/L	93	2		72	132	20
	Benzene	20	19.3	ug/L	97	0		79	120	20
	1,2-Dichloroethane	20	20.2	ug/L	101	6		73	128	20
	Trichloroethene	20	19.3	ug/L	97	4		79	123	20
	1,2-Dichloropropane	20	20.3	ug/L	102	4		78	122	20
	Bromodichloromethane	20	19.8	ug/L	99	3		79	125	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	12		67	130	20
	Toluene	20	19.5	ug/L	98	2		80	121	20
	t-1,3-Dichloropropene	20	19.1	ug/L	96	8		73	127	20
	cis-1,3-Dichloropropene	20	19.9	ug/L	100	7		75	124	20
	1,1,2-Trichloroethane	20	20.6	ug/L	103	6		80	119	20
	2-Hexanone	100	110	ug/L	110	12		57	139	20
	Dibromochloromethane	20	20.4	ug/L	102	5		74	126	20
	Tetrachloroethene	20	19.0	ug/L	95	0		74	129	20
	Chlorobenzene	20	18.8	ug/L	94	0		82	118	20
	Ethyl Benzene	20	19.5	ug/L	98	0		79	121	20
	m/p-Xylenes	40	39.4	ug/L	99	1		80	121	20
	o-Xylene	20	19.8	ug/L	99	2		78	122	20
	Styrene	20	20.0	ug/L	100	0		78	123	20
	Bromoform	20	19.4	ug/L	97	3		66	130	20
	Isopropylbenzene	20	20.1	ug/L	101	0		72	131	20
	1,1,2,2-Tetrachloroethane	20	20.4	ug/L	102	4		71	121	20
	1,3-Dichlorobenzene	20	19.7	ug/L	99	1		80	119	20
	1,4-Dichlorobenzene	20	19.5	ug/L	98	2		79	118	20
	1,2-Dichlorobenzene	20	20.3	ug/L	102	1		80	119	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0508WBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985

Lab File ID: VX046080.D Lab Sample ID: VX0508WBL01

Date Analyzed: 05/08/2025 Time Analyzed: 10:56

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0508WBS01	VX0508WBS01	VX046081.D	05/08/2025
VX0508WBSD01	VX0508WBSD01	VX046082.D	05/08/2025
TB-20250507	Q1985-02	VX046084.D	05/08/2025
RW8-BW-20250507	Q1985-01	VX046085.D	05/08/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985

Lab File ID: VX046038.D BFB Injection Date: 05/05/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:37

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	68.8
175	5.0 - 9.0% of mass 174	5 (7.3) 1
176	95.0 - 101.0% of mass 174	66.7 (97) 1
177	5.0 - 9.0% of mass 176	4.6 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC020	VSTDICC020	VX046041.D	05/05/2025	11:35
VSTDICCC050	VSTDICCC050	VX046042.D	05/05/2025	11:58
VSTDICC100	VSTDICC100	VX046043.D	05/05/2025	12:21
VSTDICC150	VSTDICC150	VX046044.D	05/05/2025	12:45
VSTDICC005	VSTDICC005	VX046046.D	05/05/2025	16:04
VSTDICC001	VSTDICC001	VX046047.D	05/05/2025	16:27

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985

Lab File ID: VX046077.D BFB Injection Date: 05/08/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:36

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.3
75	30.0 - 60.0% of mass 95	56.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	67.8
175	5.0 - 9.0% of mass 174	5.1 (7.5) 1
176	95.0 - 101.0% of mass 174	64.8 (95.5) 1
177	5.0 - 9.0% of mass 176	4.5 (7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX046078.D	05/08/2025	10:05
VX0508WBL01	VX0508WBL01	VX046080.D	05/08/2025	10:56
VX0508WBS01	VX0508WBS01	VX046081.D	05/08/2025	11:20
VX0508WBSD01	VX0508WBSD01	VX046082.D	05/08/2025	11:45
TB-20250507	Q1985-02	VX046084.D	05/08/2025	12:32
RW8-BW-20250507	Q1985-01	VX046085.D	05/08/2025	12:55
VSTDCCC050EC	VSTDCCC050	VX046100.D	05/08/2025	18:46

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985

Lab File ID: VX046078.D Date Analyzed: 05/08/2025

Instrument ID: MSVOA_X Time Analyzed: 10:05

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	105825	5.54	181991	6.75	158314	10.05
UPPER LIMIT	211650	6.044	363982	7.251	316628	10.549
LOWER LIMIT	52912.5	5.044	90995.5	6.251	79157	9.549
EPA SAMPLE NO.						
RW8-BW-20250507	65710	5.54	131109	6.76	121918	10.05
TB-20250507	64053	5.55	126115	6.76	114932	10.05
VX0508WBL01	66087	5.54	132156	6.76	121254	10.05
VX0508WBS01	97732	5.54	172839	6.76	147787	10.05
VX0508WBSD01	89125	5.54	157859	6.76	138205	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985

Lab File ID: VX046078.D Date Analyzed: 05/08/2025

Instrument ID: MSVOA_X Time Analyzed: 10:05

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	73554	12.018				
UPPER LIMIT	147108	12.518				
LOWER LIMIT	36777	11.518				
EPA SAMPLE NO.						
RW8-BW-20250507	50270	12.02				
TB-20250507	49527	12.02				
VX0508WBL01	49493	12.02				
VX0508WBS01	68652	12.02				
VX0508WBSD01	63610	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0508WBL01	SDG No.:	Q1985
Lab Sample ID:	VX0508WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046080.D	1		05/08/25 10:56	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0508WBL01	SDG No.:	Q1985
Lab Sample ID:	VX0508WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046080.D	1		05/08/25 10:56	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.5		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	49.8		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	66100	5.544				
540-36-3	1,4-Difluorobenzene	132000	6.757				
3114-55-4	Chlorobenzene-d5	121000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	49500	12.018				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0508WBS01	SDG No.:	Q1985
Lab Sample ID:	VX0508WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046081.D	1		05/08/25 11:20	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.6		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.5		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	17.9		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.3		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.3		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.4		0.23	0.75	1.00	ug/L
67-64-1	Acetone	93.0		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.3		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.3		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	17.5		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.8		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.4		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	96.5		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.5		0.19	0.75	1.00	ug/L
67-66-3	Chloroform	19.8		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.2		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.2		0.16	0.50	1.00	ug/L
71-43-2	Benzene	19.4		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.9		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.6		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.5		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.2		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	97.8		0.68	2.50	5.00	ug/L
108-88-3	Toluene	19.1		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.8		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.6		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.3		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	98.2		0.89	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0508WBS01	SDG No.:	Q1985
Lab Sample ID:	VX0508WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046081.D	1		05/08/25 11:20	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	19.3		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	18.8		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.6		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.2		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	20.1		0.12	0.50	1.00	ug/L
100-42-5	Styrene	19.9		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	18.7		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.2		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.5		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.5		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.1		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.1		0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.8		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	49.1		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	97700	5.544				
540-36-3	1,4-Difluorobenzene	173000	6.757				
3114-55-4	Chlorobenzene-d5	148000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	68700	12.018				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0508WBSD01	SDG No.:	Q1985
Lab Sample ID:	VX0508WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046082.D	1		05/08/25 11:45	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	19.2		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.0		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	18.0		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.0		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.2		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.3		0.23	0.75	1.00	ug/L
67-64-1	Acetone	98.2		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.4		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.4		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.1		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.8		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	100		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.8		0.19	0.75	1.00	ug/L
67-66-3	Chloroform	19.9		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.6		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.5		0.16	0.50	1.00	ug/L
71-43-2	Benzene	19.3		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.2		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.3		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.3		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.8		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	2.50	5.00	ug/L
108-88-3	Toluene	19.5		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.1		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.9		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0508WBSD01	SDG No.:	Q1985
Lab Sample ID:	VX0508WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046082.D	1		05/08/25 11:45	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	20.4		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.0		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	18.8		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.5		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.4		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	19.8		0.12	0.50	1.00	ug/L
100-42-5	Styrene	20.0		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	19.4		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.1		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.4		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.7		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.3		0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.9		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	49.9		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	89100	5.544				
540-36-3	1,4-Difluorobenzene	158000	6.757				
3114-55-4	Chlorobenzene-d5	138000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	63600	12.018				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	$\overline{RRF}$	% RSD
Chloromethane	0.727	0.775	0.787	0.791	0.679	0.694	0.742	6.6
Vinyl Chloride	0.660	0.710	0.727	0.755	0.619	0.673	0.691	7.2
Bromomethane	0.296	0.326	0.340	0.334	0.305		0.320	5.8
Chloroethane	0.354	0.378	0.329	0.317	0.368	0.467	0.369	14.4
Trichlorofluoromethane	1.035	1.068	0.983	0.985	0.990	1.064	1.021	3.9
1,1,2-Trichlorotrifluoroethane	0.628	0.641	0.629	0.648	0.610	0.633	0.632	2.1
1,1-Dichloroethene	0.565	0.601	0.607	0.625	0.567	0.594	0.593	3.9
Acetone	0.361	0.362	0.361	0.370	0.408	0.380	0.374	4.9
Carbon Disulfide	1.295	1.455	1.522	1.597	1.141	1.423	1.406	11.7
Methyl tert-butyl Ether	2.044	2.160	2.172	2.239	1.908	1.949	2.079	6.4
Methylene Chloride	0.689	0.684	0.691	0.691	0.689	0.853	0.716	9.4
trans-1,2-Dichloroethene	0.573	0.610	0.612	0.622	0.557	0.604	0.596	4.3
1,1-Dichloroethane	1.233	1.263	1.263	1.286	1.154	1.116	1.219	5.6
2-Butanone	0.540	0.555	0.558	0.569	0.539	0.495	0.543	4.8
Carbon Tetrachloride	0.528	0.558	0.552	0.577	0.505	0.541	0.544	4.6
cis-1,2-Dichloroethene	0.716	0.737	0.738	0.755	0.642	0.719	0.718	5.5
Chloroform	1.287	1.296	1.277	1.300	1.199	1.265	1.271	3
1,1,1-Trichloroethane	1.106	1.131	1.155	1.188	1.013	1.015	1.101	6.6
Methylcyclohexane	0.596	0.641	0.627	0.658	0.587	0.627	0.623	4.3
Benzene	1.426	1.474	1.441	1.477	1.337	1.348	1.417	4.3
1,2-Dichloroethane	0.632	0.627	0.611	0.625	0.594	0.579	0.612	3.5
Trichloroethene	0.344	0.355	0.345	0.362	0.315	0.324	0.341	5.3
1,2-Dichloropropane	0.356	0.371	0.368	0.378	0.324	0.317	0.352	7.4
Bromodichloromethane	0.557	0.577	0.573	0.594	0.498	0.485	0.547	8.2
4-Methyl-2-Pentanone	0.620	0.634	0.630	0.631	0.555	0.561	0.605	6
Toluene	0.884	0.898	0.885	0.904	0.838	0.803	0.869	4.5
t-1,3-Dichloropropene	0.468	0.528	0.555	0.591	0.406	0.371	0.487	17.9
cis-1,3-Dichloropropene	0.531	0.578	0.602	0.623	0.469	0.423	0.538	14.6
1,1,2-Trichloroethane	0.349	0.354	0.351	0.356	0.337	0.308	0.343	5.3
2-Hexanone	0.466	0.473	0.477	0.473	0.414	0.385	0.448	8.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	$\overline{RRF}$	% RSD
Dibromochloromethane	0.378	0.400	0.415	0.431	0.326	0.306	0.376	13.3
Tetrachloroethene	0.390	0.375	0.345	0.344	0.323	0.347	0.354	6.8
Chlorobenzene	1.093	1.098	1.085	1.114	1.046	1.131	1.094	2.7
Ethyl Benzene	1.919	2.022	1.979	2.036	1.816	1.803	1.929	5.2
m/p-Xylenes	0.706	0.740	0.721	0.740	0.678	0.648	0.706	5.2
o-Xylene	0.688	0.727	0.706	0.726	0.639	0.642	0.688	5.7
Styrene	1.135	1.219	1.214	1.230	1.012	0.951	1.127	10.6
Bromoform	0.270	0.304	0.312	0.327	0.236	0.234	0.281	14.2
Isopropylbenzene	3.843	4.130	3.876	4.156	3.562	3.789	3.893	5.7
1,1,2,2-Tetrachloroethane	1.315	1.338	1.284	1.345	1.350	1.552	1.364	7
1,3-Dichlorobenzene	1.633	1.701	1.656	1.730	1.558	1.619	1.649	3.7
1,4-Dichlorobenzene	1.629	1.693	1.639	1.722	1.606	1.817	1.684	4.6
1,2-Dichlorobenzene	1.613	1.696	1.634	1.702	1.577	1.710	1.655	3.3
1,2-Dichloroethane-d4	0.953	0.910	0.930	0.932	0.935		0.932	1.6
Dibromofluoromethane	0.359	0.355	0.364	0.368	0.354		0.360	1.7
Toluene-d8	1.246	1.223	1.266	1.275	1.221		1.246	2
4-Bromofluorobenzene	0.455	0.470	0.500	0.500	0.464		0.478	4.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: MSVOA_X Calibration Date/Time: 05/08/2025 10:05

Lab File ID: VX046078.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.742	0.707	0.1	-4.72	20
Vinyl Chloride	0.691	0.643		-6.95	20
Bromomethane	0.320	0.281		-12.19	20
Chloroethane	0.369	0.352		-4.61	20
Trichlorofluoromethane	1.021	0.997		-2.35	20
1,1,2-Trichlorotrifluoroethane	0.632	0.610		-3.48	20
1,1-Dichloroethene	0.593	0.554		-6.58	20
Acetone	0.374	0.352		-5.88	20
Carbon Disulfide	1.406	1.312		-6.69	20
Methyl tert-butyl Ether	2.079	1.974		-5.05	20
Methylene Chloride	0.716	0.617		-13.83	20
trans-1,2-Dichloroethene	0.596	0.560		-6.04	20
1,1-Dichloroethane	1.219	1.143	0.1	-6.24	20
2-Butanone	0.543	0.506		-6.81	20
Carbon Tetrachloride	0.544	0.519		-4.6	20
cis-1,2-Dichloroethene	0.718	0.664		-7.52	20
Chloroform	1.271	1.202		-5.43	20
1,1,1-Trichloroethane	1.101	1.037		-5.81	20
Methylcyclohexane	0.623	0.579		-7.06	20
Benzene	1.417	1.330		-6.14	20
1,2-Dichloroethane	0.612	0.565		-7.68	20
Trichloroethene	0.341	0.325		-4.69	20
1,2-Dichloropropane	0.352	0.336		-4.55	20
Bromodichloromethane	0.547	0.530		-3.11	20
4-Methyl-2-Pentanone	0.605	0.573		-5.29	20
Toluene	0.869	0.808		-7.02	20
t-1,3-Dichloropropene	0.487	0.478		-1.85	20
cis-1,3-Dichloropropene	0.538	0.529		-1.67	20
1,1,2-Trichloroethane	0.343	0.319		-7	20
2-Hexanone	0.448	0.423		-5.58	20
Dibromochloromethane	0.376	0.371		-1.33	20
Tetrachloroethene	0.354	0.343		-3.11	20
Chlorobenzene	1.094	0.988	0.3	-9.69	20
Ethyl Benzene	1.929	1.833		-4.98	20
m/p-Xylenes	0.706	0.665		-5.81	20
o-Xylene	0.688	0.646		-6.11	20
Styrene	1.127	1.099		-2.48	20
Bromoform	0.281	0.273	0.1	-2.85	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: MSVOA_X Calibration Date/Time: 05/08/2025 10:05

Lab File ID: VX046078.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.893	3.770		-3.16	20
1,1,2,2-Tetrachloroethane	1.364	1.206	0.3	-11.58	20
1,3-Dichlorobenzene	1.649	1.576		-4.43	20
1,4-Dichlorobenzene	1.684	1.554		-7.72	20
1,2-Dichlorobenzene	1.655	1.544		-6.71	20
1,2-Dichloroethane-d4	0.932	0.825		-11.48	20
Dibromofluoromethane	0.360	0.332		-7.78	20
Toluene-d8	1.246	1.149		-7.78	20
4-Bromofluorobenzene	0.478	0.428		-10.46	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: MSVOA_X Calibration Date/Time: 05/08/2025 18:46

Lab File ID: VX046100.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.742	0.761	0.1	2.56	50
Vinyl Chloride	0.691	0.697		0.87	50
Bromomethane	0.320	0.301		-5.94	50
Chloroethane	0.369	0.377		2.17	50
Trichlorofluoromethane	1.021	1.051		2.94	50
1,1,2-Trichlorotrifluoroethane	0.632	0.641		1.42	50
1,1-Dichloroethene	0.593	0.589		-0.68	50
Acetone	0.374	0.389		4.01	50
Carbon Disulfide	1.406	1.508		7.26	50
Methyl tert-butyl Ether	2.079	2.183		5	50
Methylene Chloride	0.716	0.688		-3.91	50
trans-1,2-Dichloroethene	0.596	0.596		0	50
1,1-Dichloroethane	1.219	1.275	0.1	4.59	50
2-Butanone	0.543	0.582		7.18	50
Carbon Tetrachloride	0.544	0.559		2.76	50
cis-1,2-Dichloroethene	0.718	0.741		3.2	50
Chloroform	1.271	1.318		3.7	50
1,1,1-Trichloroethane	1.101	1.150		4.45	50
Methylcyclohexane	0.623	0.607		-2.57	50
Benzene	1.417	1.453		2.54	50
1,2-Dichloroethane	0.612	0.625		2.12	50
Trichloroethene	0.341	0.344		0.88	50
1,2-Dichloropropane	0.352	0.373		5.97	50
Bromodichloromethane	0.547	0.585		6.95	50
4-Methyl-2-Pentanone	0.605	0.658		8.76	50
Toluene	0.869	0.886		1.96	50
t-1,3-Dichloropropene	0.487	0.507		4.11	50
cis-1,3-Dichloropropene	0.538	0.561		4.28	50
1,1,2-Trichloroethane	0.343	0.353		2.91	50
2-Hexanone	0.448	0.496		10.71	50
Dibromochloromethane	0.376	0.409		8.78	50
Tetrachloroethene	0.354	0.354		0	50
Chlorobenzene	1.094	1.092	0.3	-0.18	50
Ethyl Benzene	1.929	2.015		4.46	50
m/p-Xylenes	0.706	0.731		3.54	50
o-Xylene	0.688	0.727		5.67	50
Styrene	1.127	1.222		8.43	50
Bromoform	0.281	0.310	0.1	10.32	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: MSVOA_X Calibration Date/Time: 05/08/2025 18:46

Lab File ID: VX046100.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.893	3.977		2.16	50
1,1,2,2-Tetrachloroethane	1.364	1.354	0.3	-0.73	50
1,3-Dichlorobenzene	1.649	1.648		-0.06	50
1,4-Dichlorobenzene	1.684	1.636		-2.85	50
1,2-Dichlorobenzene	1.655	1.664		0.54	50
1,2-Dichloroethane-d4	0.932	0.905		-2.9	50
Dibromofluoromethane	0.360	0.350		-2.78	50
Toluene-d8	1.246	1.213		-2.65	50
4-Bromofluorobenzene	0.478	0.464		-2.93	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

LAB CHRONICLE

OrderID:	Q1985	**OrderDate:**	5/8/2025 10:49:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1985-01	**RW8-BW-20250507**	**Water**			**05/07/25**			**05/08/25**
			SVOC-SIMGroup1	8270-Modified		05/13/25	05/14/25	
			SVOC-TCL BNA -20	8270E		05/12/25	05/15/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID		Parameter		Concentration	C	MDL	LOD	RDL	Units
Client ID :	**RW8-BW-20250507**									
Q1985-01	RW8-BW-20250507	WATER	Di-n-butylphthalate		5.300		1.2	4	5	ug/L
Q1985-01	RW8-BW-20250507	WATER	Bis(2-ethylhexyl)phthalate		4.600	J	1.6	4	5	ug/L
Q1985-01	RW8-BW-20250507	WATER	Di-n-octyl phthalate		8.100	J	2.3	8	10	ug/L
			Total Svoc :			**18.00**				
Q1985-01	RW8-BW-20250507	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	4.300	AB	0		0	ug/L
Q1985-01	RW8-BW-20250507	WATER	Benzophenone	*	2.900	J	0		0	ug/L
			Total Tics :			**7.20**				
			Total Concentration:			**25.20**				

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 NUS, Inc.	Date Collected:	05/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/08/25
Client Sample ID:	RW8-BW-20250507	SDG No.:	Q1985
Lab Sample ID:	Q1985-01	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142387.D	1	05/12/25 08:40	05/15/25 11:49	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
100-52-7	Benzaldehyde	8.00	U	3.90	8.00	10.0	ug/L
108-95-2	Phenol	4.00	U	0.91	4.00	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	4.00	U	0.81	4.00	5.00	ug/L
95-57-8	2-Chlorophenol	4.00	U	0.58	4.00	5.00	ug/L
95-48-7	2-Methylphenol	4.00	U	1.10	4.00	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	4.00	U	1.30	4.00	5.00	ug/L
98-86-2	Acetophenone	4.00	U	0.74	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	8.00	U	1.10	8.00	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	1.40	2.50	2.50	ug/L
67-72-1	Hexachloroethane	4.00	U	0.65	4.00	5.00	ug/L
98-95-3	Nitrobenzene	4.00	U	0.76	4.00	5.00	ug/L
78-59-1	Isophorone	4.00	U	0.75	4.00	5.00	ug/L
88-75-5	2-Nitrophenol	4.00	U	1.80	4.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	4.00	U	1.90	4.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	4.00	U	0.68	4.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	4.00	U	0.52	4.00	5.00	ug/L
91-20-3	Naphthalene	4.00	U	0.50	4.00	5.00	ug/L
106-47-8	4-Chloroaniline	4.00	U	0.84	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	4.00	U	0.54	4.00	5.00	ug/L
105-60-2	Caprolactam	8.00	U	1.10	8.00	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	4.00	U	0.59	4.00	5.00	ug/L
91-57-6	2-Methylnaphthalene	4.00	U	0.56	4.00	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	8.00	U	3.60	8.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	4.00	U	0.51	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	4.00	U	0.62	4.00	5.00	ug/L
92-52-4	1,1-Biphenyl	4.00	U	0.53	4.00	5.00	ug/L
91-58-7	2-Chloronaphthalene	4.00	U	0.61	4.00	5.00	ug/L
88-74-4	2-Nitroaniline	4.00	U	1.30	4.00	5.00	ug/L
131-11-3	Dimethylphthalate	4.00	U	0.61	4.00	5.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/08/25
Client Sample ID:	RW8-BW-20250507	SDG No.:	Q1985
Lab Sample ID:	Q1985-01	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142387.D	1	05/12/25 08:40	05/15/25 11:49	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
208-96-8	Acenaphthylene	4.00	U	0.75	4.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	4.00	U	0.92	4.00	5.00	ug/L
99-09-2	3-Nitroaniline	4.00	U	1.10	4.00	5.00	ug/L
83-32-9	Acenaphthene	4.00	U	0.55	4.00	5.00	ug/L
51-28-5	2,4-Dinitrophenol	8.00	U	6.00	8.00	10.0	ug/L
100-02-7	4-Nitrophenol	8.00	U	2.40	8.00	10.0	ug/L
132-64-9	Dibenzofuran	4.00	U	0.61	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	4.00	U	1.20	4.00	5.00	ug/L
84-66-2	Diethylphthalate	4.00	U	0.69	4.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	4.00	U	0.68	4.00	5.00	ug/L
86-73-7	Fluorene	4.00	U	0.63	4.00	5.00	ug/L
100-01-6	4-Nitroaniline	4.00	U	1.50	4.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	8.00	U	2.90	8.00	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	4.00	U	0.58	4.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	4.00	U	0.40	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	4.00	U	0.52	4.00	5.00	ug/L
1912-24-9	Atrazine	4.00	U	1.00	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	8.00	U	1.60	8.00	10.0	ug/L
85-01-8	Phenanthrene	4.00	U	0.50	4.00	5.00	ug/L
120-12-7	Anthracene	4.00	U	0.61	4.00	5.00	ug/L
86-74-8	Carbazole	4.00	U	0.72	4.00	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.30		1.20	4.00	5.00	ug/L
206-44-0	Fluoranthene	4.00	U	0.82	4.00	5.00	ug/L
129-00-0	Pyrene	4.00	U	0.50	4.00	5.00	ug/L
85-68-7	Butylbenzylphthalate	4.00	U	1.90	4.00	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	8.00	U	0.93	8.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	4.00	U	0.45	4.00	5.00	ug/L
218-01-9	Chrysene	4.00	U	0.44	4.00	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	4.60	J	1.60	4.00	5.00	ug/L
117-84-0	Di-n-octyl phthalate	8.10	J	2.30	8.00	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	4.00	U	0.49	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/08/25
Client Sample ID:	RW8-BW-20250507	SDG No.:	Q1985
Lab Sample ID:	Q1985-01	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142387.D	1	05/12/25 08:40	05/15/25 11:49	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	4.00	U	0.48	4.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	4.00	U	0.55	4.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	4.00	U	0.59	4.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	4.00	U	0.67	4.00	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	4.00	U	0.69	4.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	4.00	U	0.52	4.00	5.00	ug/L
123-91-1	1,4-Dioxane	4.00	U	1.00	4.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	4.00	U	0.72	4.00	5.00	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	65.0		19 - 119		43%	SPK: 150
13127-88-3	Phenol-d6	41.6		10 - 130		28%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.7		44 - 120		94%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.8		44 - 119		79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	151		43 - 140		101%	SPK: 150
1718-51-0	Terphenyl-d14	86.9		50 - 134		87%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	168000	6.904				
1146-65-2	Naphthalene-d8	639000	8.186				
15067-26-2	Acenaphthene-d10	344000	9.939				
1517-22-2	Phenanthrene-d10	570000	11.422				
1719-03-5	Chrysene-d12	315000	14.063				
1520-96-3	Perylene-d12	358000	15.557				
TENTATIVE IDENTIFIED COMPOUNDS							
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.30	AB			5.12	ug/L
000119-61-9	Benzophenone	2.90	J			10.7	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/08/25
Client Sample ID:	RW8-BW-20250507	SDG No.:	Q1985
Lab Sample ID:	Q1985-01	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142387.D	1	05/12/25 08:40	05/15/25 11:49	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167951BL	PB167951BL	2-Fluorophenol	150	126	84		19	119
		Phenol-d6	150	123	82		10	130
		Nitrobenzene-d5	100	86.0	86		44	120
		2-Fluorobiphenyl	100	74.5	75		44	119
		2,4,6-Tribromophenol	150	155	103		43	140
		Terphenyl-d14	100	72.8	73		50	134
PB167951BS	PB167951BS	2-Fluorophenol	150	119	80		19	119
		Phenol-d6	150	117	78		10	130
		Nitrobenzene-d5	100	81.6	82		44	120
		2-Fluorobiphenyl	100	71.6	72		44	119
		2,4,6-Tribromophenol	150	142	95		43	140
		Terphenyl-d14	100	79.3	79		50	134
Q1985-01	RW8-BW-20250507	2-Fluorophenol	150	65.0	43		19	119
		Phenol-d6	150	41.6	28		10	130
		Nitrobenzene-d5	100	93.7	94		44	120
		2-Fluorobiphenyl	100	78.8	79		44	119
		2,4,6-Tribromophenol	150	151	101		43	140
		Terphenyl-d14	100	86.9	87		50	134
Q1993-02MS	MW-3-20250508MS	2-Fluorophenol	150	63.8	43		19	119
		Phenol-d6	150	41.3	28		10	130
		Nitrobenzene-d5	100	85.9	86		44	120
		2-Fluorobiphenyl	100	76.0	76		44	119
		2,4,6-Tribromophenol	150	138	92		43	140
		Terphenyl-d14	100	68.2	68		50	134
Q1993-03MSD	MW-3-20250508MSD	2-Fluorophenol	150	67.2	45		19	119
		Phenol-d6	150	43.9	29		10	130
		Nitrobenzene-d5	100	90.4	90		44	120
		2-Fluorobiphenyl	100	78.7	79		44	119
		2,4,6-Tribromophenol	150	144	96		43	140
		Terphenyl-d14	100	73.5	74		50	134

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1993-02MS		**Client Sample ID: MW-3-20250508MS**						**DataFile: BF142388.D**			
Benzaldehyde	50	0	33.4	ug/L	67				10	161	
Phenol	50	0	17.3	ug/L	35				10	132	
bis(2-Chloroethyl)ether	50	0	34.1	ug/L	68				43	118	
2-Chlorophenol	50	0	37.9	ug/L	76				38	117	
2-Methylphenol	50	0	31.6	ug/L	63				30	117	
2,2-oxybis(1-Chloropropane)	50	0	38.8	ug/L	78				37	130	
Acetophenone	50	0	42.8	ug/L	86				46	118	
3+4-Methylphenols	50	0	28.4	ug/L	57				29	110	
N-Nitroso-di-n-propylamine	50	0	42.7	ug/L	85				49	119	
Hexachloroethane	50	0	33.9	ug/L	68				21	115	
Nitrobenzene	50	0	46.1	ug/L	92				45	121	
Isophorone	50	0	43.9	ug/L	88				42	124	
2-Nitrophenol	50	0	51.3	ug/L	103				47	123	
2,4-Dimethylphenol	50	0	40.9	ug/L	82				31	124	
bis(2-Chloroethoxy)methane	50	0	42.7	ug/L	85				48	120	
2,4-Dichlorophenol	50	0	44.9	ug/L	90				47	121	
Naphthalene	50	0	40.6	ug/L	81				40	121	
4-Chloroaniline	50	0	18.8	ug/L	38				33	117	
Hexachlorobutadiene	50	0	38.9	ug/L	78				22	124	
Caprolactam	50	0	8.70	ug/L	17				10	161	
4-Chloro-3-methylphenol	50	0	40.9	ug/L	82				52	119	
2-Methylnaphthalene	50	0	42.6	ug/L	85				40	121	
Hexachlorocyclopentadiene	100	0	84.3	ug/L	84				10	155	
2,4,6-Trichlorophenol	50	0	51.2	ug/L	102				50	125	
2,4,5-Trichlorophenol	50	0	46.6	ug/L	93				53	123	
1,1-Biphenyl	50	0	43.7	ug/L	87				49	115	
2-Chloronaphthalene	50	0	43.5	ug/L	87				40	116	
2-Nitroaniline	50	0	50.5	ug/L	101				55	127	
Dimethylphthalate	50	0	46.3	ug/L	93				45	127	
Acenaphthylene	50	0	43.4	ug/L	87				41	130	
2,6-Dinitrotoluene	50	0	54.9	ug/L	110				57	124	
3-Nitroaniline	50	0	25.9	ug/L	52				41	128	
Acenaphthene	50	0	48.1	ug/L	96				47	122	
2,4-Dinitrophenol	100	0	110	ug/L	110				23	143	
4-Nitrophenol	100	0	36.2	ug/L	36				10	161	
Dibenzofuran	50	0	43.1	ug/L	86				53	118	
2,4-Dinitrotoluene	50	0	55.9	ug/L	112				57	128	
Diethylphthalate	50	0	69.8	ug/L	140	*			56	125	
4-Chlorophenyl-phenylether	50	0	44.5	ug/L	89				53	121	
Fluorene	50	0	42.5	ug/L	85				52	124	
4-Nitroaniline	50	0	48.8	ug/L	98				35	120	
4,6-Dinitro-2-methylphenol	50	0	58.2	ug/L	116				44	137	
N-Nitrosodiphenylamine	50	0	48.0	ug/L	96				51	123	
4-Bromophenyl-phenylether	50	0	49.9	ug/L	100				55	124	
Hexachlorobenzene	50	0	49.7	ug/L	99				53	125	
Atrazine	50	0	45.2	ug/L	90				44	142	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	100	0	110	ug/L	110				35	138	
Phenanthrene	50	0	44.7	ug/L	89				59	120	
Anthracene	50	0	43.9	ug/L	88				57	123	
Carbazole	50	0	40.4	ug/L	81				60	122	
Di-n-butylphthalate	50	0	50.4	ug/L	101				59	127	
Fluoranthene	50	0	39.8	ug/L	80				57	128	
Pyrene	50	0	39.4	ug/L	79				57	126	
Butylbenzylphthalate	50	0	54.6	ug/L	109				53	134	
3,3-Dichlorobenzidine	50	0	41.2	ug/L	82				27	129	
Benzo(a)anthracene	50	0	46.2	ug/L	92				58	125	
Chrysene	50	0	45.6	ug/L	91				59	123	
bis(2-Ethylhexyl)phthalate	50	0	56.7	ug/L	113				55	135	
Di-n-octyl phthalate	50	0	55.5	ug/L	111				51	140	
Benzo(b)fluoranthene	50	0	46.4	ug/L	93				53	131	
Benzo(k)fluoranthene	50	0	46.4	ug/L	93				57	129	
Benzo(a)pyrene	50	0	48.8	ug/L	98				54	128	
Indeno(1,2,3-cd)pyrene	50	0	40.3	ug/L	81				52	134	
Dibenz(a,h)anthracene	50	0	39.9	ug/L	80				51	134	
Benzo(g,h,i)perylene	50	0	37.7	ug/L	75				50	134	
1,2,4,5-Tetrachlorobenzene	50	0	43.5	ug/L	87				35	121	
1,4-Dioxane	50	0	17.3	ug/L	35	*			70	130	
2,3,4,6-Tetrachlorophenol	50	0	48.6	ug/L	97				50	128	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1993-03MSD		**Client Sample ID: MW-3-20250508MSD**						**DataFile: BF142389.D**			
Benzaldehyde	50	0	35.6	ug/L	71		6		10	161	20
Phenol	50	0	18.2	ug/L	36		3		10	132	20
bis(2-Chloroethyl)ether	50	0	35.8	ug/L	72		6		43	118	20
2-Chlorophenol	50	0	39.7	ug/L	79		4		38	117	20
2-Methylphenol	50	0	34.1	ug/L	68		8		30	117	20
2,2-oxybis(1-Chloropropane)	50	0	40.9	ug/L	82		5		37	130	20
Acetophenone	50	0	45.0	ug/L	90		5		46	118	20
3+4-Methylphenols	50	0	30.0	ug/L	60		5		29	110	20
N-Nitroso-di-n-propylamine	50	0	45.8	ug/L	92		8		49	119	20
Hexachloroethane	50	0	36.3	ug/L	73		7		21	115	20
Nitrobenzene	50	0	48.4	ug/L	97		5		45	121	20
Isophorone	50	0	46.8	ug/L	94		7		42	124	20
2-Nitrophenol	50	0	55.7	ug/L	111		7		47	123	20
2,4-Dimethylphenol	50	0	43.3	ug/L	87		6		31	124	20
bis(2-Chloroethoxy)methane	50	0	45.9	ug/L	92		8		48	120	20
2,4-Dichlorophenol	50	0	47.9	ug/L	96		6		47	121	20
Naphthalene	50	0	43.3	ug/L	87		7		40	121	20
4-Chloroaniline	50	0	19.4	ug/L	39		3		33	117	20
Hexachlorobutadiene	50	0	41.6	ug/L	83		6		22	124	20
Caprolactam	50	0	9.60	ug/L	19		11		10	161	20
4-Chloro-3-methylphenol	50	0	43.6	ug/L	87		6		52	119	20
2-Methylnaphthalene	50	0	45.0	ug/L	90		6		40	121	20
Hexachlorocyclopentadiene	100	0	85.8	ug/L	86		2		10	155	20
2,4,6-Trichlorophenol	50	0	53.2	ug/L	106		4		50	125	20
2,4,5-Trichlorophenol	50	0	48.5	ug/L	97		4		53	123	20
1,1-Biphenyl	50	0	45.0	ug/L	90		3		49	115	20
2-Chloronaphthalene	50	0	45.0	ug/L	90		3		40	116	20
2-Nitroaniline	50	0	54.1	ug/L	108		7		55	127	20
Dimethylphthalate	50	0	48.3	ug/L	97		4		45	127	20
Acenaphthylene	50	0	45.0	ug/L	90		3		41	130	20
2,6-Dinitrotoluene	50	0	56.8	ug/L	114		4		57	124	20
3-Nitroaniline	50	0	25.9	ug/L	52		0		41	128	20
Acenaphthene	50	0	50.9	ug/L	102		6		47	122	20
2,4-Dinitrophenol	100	0	110	ug/L	110		0		23	143	20
4-Nitrophenol	100	0	37.9	ug/L	38		5		10	161	20
Dibenzofuran	50	0	44.7	ug/L	89		3		53	118	20
2,4-Dinitrotoluene	50	0	58.4	ug/L	117		4		57	128	20
Diethylphthalate	50	0	72.5	ug/L	145	*	4		56	125	20
4-Chlorophenyl-phenylether	50	0	46.2	ug/L	92		3		53	121	20
Fluorene	50	0	44.2	ug/L	88		3		52	124	20
4-Nitroaniline	50	0	51.9	ug/L	104		6		35	120	20
4,6-Dinitro-2-methylphenol	50	0	62.4	ug/L	125		7		44	137	20
N-Nitrosodiphenylamine	50	0	50.3	ug/L	101		5		51	123	20
4-Bromophenyl-phenylether	50	0	52.6	ug/L	105		5		55	124	20
Hexachlorobenzene	50	0	52.2	ug/L	104		5		53	125	20
Atrazine	50	0	49.0	ug/L	98		9		44	142	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	100	0	110	ug/L	110		0		35	138	20
Phenanthrene	50	0	46.9	ug/L	94		5		59	120	20
Anthracene	50	0	46.4	ug/L	93		6		57	123	20
Carbazole	50	0	42.9	ug/L	86		6		60	122	20
Di-n-butylphthalate	50	0	54.2	ug/L	108		7		59	127	20
Fluoranthene	50	0	42.6	ug/L	85		6		57	128	20
Pyrene	50	0	42.7	ug/L	85		7		57	126	20
Butylbenzylphthalate	50	0	58.8	ug/L	118		8		53	134	20
3,3-Dichlorobenzidine	50	0	42.8	ug/L	86		5		27	129	20
Benzo(a)anthracene	50	0	48.7	ug/L	97		5		58	125	20
Chrysene	50	0	48.5	ug/L	97		6		59	123	20
bis(2-Ethylhexyl)phthalate	50	0	60.9	ug/L	122		8		55	135	20
Di-n-octyl phthalate	50	0	57.3	ug/L	115		4		51	140	20
Benzo(b)fluoranthene	50	0	47.6	ug/L	95		2		53	131	20
Benzo(k)fluoranthene	50	0	48.5	ug/L	97		4		57	129	20
Benzo(a)pyrene	50	0	50.3	ug/L	101		3		54	128	20
Indeno(1,2,3-cd)pyrene	50	0	40.8	ug/L	82		1		52	134	20
Dibenz(a,h)anthracene	50	0	40.4	ug/L	81		1		51	134	20
Benzo(g,h,i)perylene	50	0	37.8	ug/L	76		1		50	134	20
1,2,4,5-Tetrachlorobenzene	50	0	44.9	ug/L	90		3		35	121	20
1,4-Dioxane	50	0	18.2	ug/L	36	*	3		70	130	20
2,3,4,6-Tetrachlorophenol	50	0	50.9	ug/L	102		5		50	128	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF142386.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167951BS	Benzaldehyde	50	39.2	ug/L	78				10	161	
	Phenol	50	44.5	ug/L	89				10	132	
	bis(2-Chloroethyl)ether	50	34.7	ug/L	69				43	118	
	2-Chlorophenol	50	44.6	ug/L	89				38	117	
	2-Methylphenol	50	43.0	ug/L	86				30	117	
	2,2-oxybis(1-Chloropropane)	50	38.8	ug/L	78				37	130	
	Acetophenone	50	41.2	ug/L	82				46	118	
	3+4-Methylphenols	50	42.8	ug/L	86				29	110	
	N-Nitroso-di-n-propylamine	50	41.2	ug/L	82				49	119	
	Hexachloroethane	50	42.3	ug/L	85				21	115	
	Nitrobenzene	50	44.9	ug/L	90				45	121	
	Isophorone	50	42.0	ug/L	84				42	124	
	2-Nitrophenol	50	50.6	ug/L	101				47	123	
	2,4-Dimethylphenol	50	44.4	ug/L	89				31	124	
	bis(2-Chloroethoxy)methane	50	41.0	ug/L	82				48	120	
	2,4-Dichlorophenol	50	46.6	ug/L	93				47	121	
	Naphthalene	50	41.8	ug/L	84				40	121	
	4-Chloroaniline	50	8.80	ug/L	18		*		33	117	
	Hexachlorobutadiene	50	43.7	ug/L	87				22	124	
	Caprolactam	50	51.4	ug/L	103				10	161	
	4-Chloro-3-methylphenol	50	47.5	ug/L	95				52	119	
	2-Methylnaphthalene	50	42.2	ug/L	84				40	121	
	Hexachlorocyclopentadiene	100	90.2	ug/L	90				10	155	
	2,4,6-Trichlorophenol	50	47.6	ug/L	95				50	125	
	2,4,5-Trichlorophenol	50	47.2	ug/L	94				53	123	
	1,1-Biphenyl	50	41.1	ug/L	82				49	115	
	2-Chloronaphthalene	50	41.2	ug/L	82				40	116	
	2-Nitroaniline	50	50.4	ug/L	101				55	127	
	Dimethylphthalate	50	44.5	ug/L	89				45	127	
	Acenaphthylene	50	42.0	ug/L	84				41	130	
	2,6-Dinitrotoluene	50	53.5	ug/L	107				57	124	
	3-Nitroaniline	50	26.9	ug/L	54				41	128	
	Acenaphthene	50	47.1	ug/L	94				47	122	
	2,4-Dinitrophenol	100	120	ug/L	120				23	143	
	4-Nitrophenol	100	110	ug/L	110				10	161	
	Dibenzofuran	50	41.5	ug/L	83				53	118	
	2,4-Dinitrotoluene	50	57.7	ug/L	115				57	128	
	Diethylphthalate	50	44.2	ug/L	88				56	125	
	4-Chlorophenyl-phenylether	50	42.6	ug/L	85				53	121	
	Fluorene	50	41.7	ug/L	83				52	124	
	4-Nitroaniline	50	58.5	ug/L	117				35	120	
	4,6-Dinitro-2-methylphenol	50	55.9	ug/L	112				44	137	
	N-Nitrosodiphenylamine	50	42.0	ug/L	84				51	123	
	4-Bromophenyl-phenylether	50	43.6	ug/L	87				55	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF142386.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167951BS	Hexachlorobenzene	50	44.1	ug/L	88				53	125	
	Atrazine	50	49.0	ug/L	98				44	142	
	Pentachlorophenol	100	110	ug/L	110				35	138	
	Phenanthrene	50	42.0	ug/L	84				59	120	
	Anthracene	50	41.4	ug/L	83				57	123	
	Carbazole	50	42.1	ug/L	84				60	122	
	Di-n-butylphthalate	50	45.7	ug/L	91				59	127	
	Fluoranthene	50	41.5	ug/L	83				57	128	
	Pyrene	50	46.2	ug/L	92				57	126	
	Butylbenzylphthalate	50	48.2	ug/L	96				53	134	
	3,3-Dichlorobenzidine	50	38.3	ug/L	77				27	129	
	Benzo(a)anthracene	50	43.7	ug/L	87				58	125	
	Chrysene	50	43.5	ug/L	87				59	123	
	bis(2-Ethylhexyl)phthalate	50	48.0	ug/L	96				55	135	
	Di-n-octyl phthalate	50	49.2	ug/L	98				51	140	
	Benzo(b)fluoranthene	50	43.2	ug/L	86				53	131	
	Benzo(k)fluoranthene	50	43.6	ug/L	87				57	129	
	Benzo(a)pyrene	50	46.1	ug/L	92				54	128	
	Indeno(1,2,3-cd)pyrene	50	45.6	ug/L	91				52	134	
	Dibenz(a,h)anthracene	50	45.4	ug/L	91				51	134	
	Benzo(g,h,i)perylene	50	44.4	ug/L	89				50	134	
	1,2,4,5-Tetrachlorobenzene	50	41.4	ug/L	83				35	121	
	1,4-Dioxane	50	31.9	ug/L	64		*		70	130	
	2,3,4,6-Tetrachlorophenol	50	50.6	ug/L	101				50	128	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167951BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985

Lab File ID: BF142385.D Lab Sample ID: PB167951BL

Instrument ID: BNA_F Date Extracted: 05/12/2025

Matrix: (soil/water) Water Date Analyzed: 05/15/2025

Level: (low/med) LOW Time Analyzed: 10:37

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167951BS	PB167951BS	BF142386.D	05/15/2025
RW8-BW-20250507	Q1985-01	BF142387.D	05/15/2025
MW-3-20250508MS	Q1993-02MS	BF142388.D	05/15/2025
MW-3-20250508MSD	Q1993-03MSD	BF142389.D	05/15/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1985 SDG NO.: Q1985

Lab File ID: BF142294.D DFTPP Injection Date: 05/05/2025

Instrument ID: BNA_F DFTPP Injection Time: 13:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	25.8
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	34.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.2
275	10.0 - 60.0% of mass 198	22.8
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.6 (19.6) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF142295.D	05/05/2025	13:54
SSTDICC005	SSTDICC005	BF142296.D	05/05/2025	14:23
SSTDICC010	SSTDICC010	BF142297.D	05/05/2025	14:52
SSTDICC020	SSTDICC020	BF142298.D	05/05/2025	15:21
SSTDICCC040	SSTDICCC040	BF142299.D	05/05/2025	15:50
SSTDICC050	SSTDICC050	BF142300.D	05/05/2025	16:18
SSTDICC060	SSTDICC060	BF142301.D	05/05/2025	16:47
SSTDICC080	SSTDICC080	BF142302.D	05/05/2025	17:15

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1985 SDG NO.: Q1985

Lab File ID: BF142383.D DFTPP Injection Date: 05/15/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	31.9
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	26.6
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	36
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.4
275	10.0 - 60.0% of mass 198	23.5
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142384.D	05/15/2025	10:08
PB167951BL	PB167951BL	BF142385.D	05/15/2025	10:37
PB167951BS	PB167951BS	BF142386.D	05/15/2025	11:06
RW8-BW-20250507	Q1985-01	BF142387.D	05/15/2025	11:49
MW-3-20250508MS	Q1993-02MS	BF142388.D	05/15/2025	12:18
MW-3-20250508MSD	Q1993-03MSD	BF142389.D	05/15/2025	12:47
SSTDCCC040EC	SSTDCCC040	BF142391.D	05/15/2025	13:58

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/15/2025

Lab File ID: BF142384.D Time Analyzed: 10:08

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	167469	6.904	652293	8.19	352544	9.95
	UPPER LIMIT	334938	7.404	1304590	8.686	705088	10.445
	LOWER LIMIT	83734.5	6.404	326147	7.686	176272	9.445
	EPA SAMPLE NO.						
01	RW8-BW-20250507	167801	6.90	639031	8.19	343772	9.94
02	MW-3-20250508MS	172758	6.90	661579	8.19	349080	9.94
03	MW-3-20250508MSD	172657	6.90	662026	8.19	357440	9.94
04	PB167951BL	182996	6.90	716318	8.18	391073	9.94
05	PB167951BS	183759	6.90	709461	8.19	390383	9.94

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/15/2025

Lab File ID: BF142384.D Time Analyzed: 10:08

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	609842	11.427	307770	14.068	334801	15.556
	UPPER LIMIT	1219680	11.927	615540	14.568	669602	16.056
	LOWER LIMIT	304921	10.927	153885	13.568	167401	15.056
	EPA SAMPLE NO.						
01	RW8-BW-20250507	569708	11.42	315375	14.06	358092	15.56
02	MW-3-20250508MS	537648	11.43	310239	14.07	367976	15.56
03	MW-3-20250508MSD	546787	11.43	314221	14.07	374057	15.56
04	PB167951BL	726822	11.42	497782	14.06	375900	15.55
05	PB167951BS	683655	11.43	358537	14.07	373046	15.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB167951BL	SDG No.:	Q1985
Lab Sample ID:	PB167951BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142385.D	1	05/12/25 08:40	05/15/25 10:37	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
100-52-7	Benzaldehyde	8.00	U	3.90	8.00	10.0	ug/L
108-95-2	Phenol	4.00	U	0.91	4.00	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	4.00	U	0.81	4.00	5.00	ug/L
95-57-8	2-Chlorophenol	4.00	U	0.58	4.00	5.00	ug/L
95-48-7	2-Methylphenol	4.00	U	1.10	4.00	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	4.00	U	1.30	4.00	5.00	ug/L
98-86-2	Acetophenone	4.00	U	0.74	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	8.00	U	1.10	8.00	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	1.40	2.50	2.50	ug/L
67-72-1	Hexachloroethane	4.00	U	0.65	4.00	5.00	ug/L
98-95-3	Nitrobenzene	4.00	U	0.76	4.00	5.00	ug/L
78-59-1	Isophorone	4.00	U	0.75	4.00	5.00	ug/L
88-75-5	2-Nitrophenol	4.00	U	1.80	4.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	4.00	U	1.90	4.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	4.00	U	0.68	4.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	4.00	U	0.52	4.00	5.00	ug/L
91-20-3	Naphthalene	4.00	U	0.50	4.00	5.00	ug/L
106-47-8	4-Chloroaniline	4.00	U	0.84	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	4.00	U	0.54	4.00	5.00	ug/L
105-60-2	Caprolactam	8.00	U	1.10	8.00	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	4.00	U	0.59	4.00	5.00	ug/L
91-57-6	2-Methylnaphthalene	4.00	U	0.56	4.00	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	8.00	U	3.60	8.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	4.00	U	0.51	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	4.00	U	0.62	4.00	5.00	ug/L
92-52-4	1,1-Biphenyl	4.00	U	0.53	4.00	5.00	ug/L
91-58-7	2-Chloronaphthalene	4.00	U	0.61	4.00	5.00	ug/L
88-74-4	2-Nitroaniline	4.00	U	1.30	4.00	5.00	ug/L
131-11-3	Dimethylphthalate	4.00	U	0.61	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB167951BL	SDG No.:	Q1985
Lab Sample ID:	PB167951BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142385.D	1	05/12/25 08:40	05/15/25 10:37	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
208-96-8	Acenaphthylene	4.00	U	0.75	4.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	4.00	U	0.92	4.00	5.00	ug/L
99-09-2	3-Nitroaniline	4.00	U	1.10	4.00	5.00	ug/L
83-32-9	Acenaphthene	4.00	U	0.55	4.00	5.00	ug/L
51-28-5	2,4-Dinitrophenol	8.00	U	6.00	8.00	10.0	ug/L
100-02-7	4-Nitrophenol	8.00	U	2.40	8.00	10.0	ug/L
132-64-9	Dibenzofuran	4.00	U	0.61	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	4.00	U	1.20	4.00	5.00	ug/L
84-66-2	Diethylphthalate	4.00	U	0.69	4.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	4.00	U	0.68	4.00	5.00	ug/L
86-73-7	Fluorene	4.00	U	0.63	4.00	5.00	ug/L
100-01-6	4-Nitroaniline	4.00	U	1.50	4.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	8.00	U	2.90	8.00	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	4.00	U	0.58	4.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	4.00	U	0.40	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	4.00	U	0.52	4.00	5.00	ug/L
1912-24-9	Atrazine	4.00	U	1.00	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	8.00	U	1.60	8.00	10.0	ug/L
85-01-8	Phenanthrene	4.00	U	0.50	4.00	5.00	ug/L
120-12-7	Anthracene	4.00	U	0.61	4.00	5.00	ug/L
86-74-8	Carbazole	4.00	U	0.72	4.00	5.00	ug/L
84-74-2	Di-n-butylphthalate	4.00	U	1.20	4.00	5.00	ug/L
206-44-0	Fluoranthene	4.00	U	0.82	4.00	5.00	ug/L
129-00-0	Pyrene	4.00	U	0.50	4.00	5.00	ug/L
85-68-7	Butylbenzylphthalate	4.00	U	1.90	4.00	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	8.00	U	0.93	8.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	4.00	U	0.45	4.00	5.00	ug/L
218-01-9	Chrysene	4.00	U	0.44	4.00	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	4.00	U	1.60	4.00	5.00	ug/L
117-84-0	Di-n-octyl phthalate	8.00	U	2.30	8.00	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	4.00	U	0.49	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB167951BL	SDG No.:	Q1985
Lab Sample ID:	PB167951BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142385.D	1	05/12/25 08:40	05/15/25 10:37	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	4.00	U	0.48	4.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	4.00	U	0.55	4.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	4.00	U	0.59	4.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	4.00	U	0.67	4.00	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	4.00	U	0.69	4.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	4.00	U	0.52	4.00	5.00	ug/L
123-91-1	1,4-Dioxane	4.00	U	1.00	4.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	4.00	U	0.72	4.00	5.00	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	126		19 - 119		84%	SPK: 150
13127-88-3	Phenol-d6	123		10 - 130		82%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.0		44 - 120		86%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.5		44 - 119		75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	155		43 - 140		103%	SPK: 150
1718-51-0	Terphenyl-d14	72.8		50 - 134		73%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	183000	6.904				
1146-65-2	Naphthalene-d8	716000	8.181				
15067-26-2	Acenaphthene-d10	391000	9.939				
1517-22-2	Phenanthrene-d10	727000	11.422				
1719-03-5	Chrysene-d12	498000	14.063				
1520-96-3	Perylene-d12	376000	15.551				
TENTATIVE IDENTIFIED COMPOUNDS							
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	9.90	A			5.14	ug/L
	unknown7.304	2.10	J			7.30	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB167951BL	SDG No.:	Q1985
Lab Sample ID:	PB167951BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142385.D	1	05/12/25 08:40	05/15/25 10:37	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB167951BS	SDG No.:	Q1985
Lab Sample ID:	PB167951BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142386.D	1	05/12/25 08:40	05/15/25 11:06	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
100-52-7	Benzaldehyde	39.2		3.90	8.00	10.0	ug/L
108-95-2	Phenol	44.5		0.91	4.00	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	34.7		0.81	4.00	5.00	ug/L
95-57-8	2-Chlorophenol	44.6		0.58	4.00	5.00	ug/L
95-48-7	2-Methylphenol	43.0		1.10	4.00	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	38.8		1.30	4.00	5.00	ug/L
98-86-2	Acetophenone	41.2		0.74	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	42.8		1.10	8.00	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	41.2		1.40	2.50	2.50	ug/L
67-72-1	Hexachloroethane	42.3		0.65	4.00	5.00	ug/L
98-95-3	Nitrobenzene	44.9		0.76	4.00	5.00	ug/L
78-59-1	Isophorone	42.0		0.75	4.00	5.00	ug/L
88-75-5	2-Nitrophenol	50.6		1.80	4.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	44.4		1.90	4.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.0		0.68	4.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	46.6		0.52	4.00	5.00	ug/L
91-20-3	Naphthalene	41.8		0.50	4.00	5.00	ug/L
106-47-8	4-Chloroaniline	8.80		0.84	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	43.7		0.54	4.00	5.00	ug/L
105-60-2	Caprolactam	51.4		1.10	8.00	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	47.5		0.59	4.00	5.00	ug/L
91-57-6	2-Methylnaphthalene	42.2		0.56	4.00	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	90.2	E	3.60	8.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	47.6		0.51	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	47.2		0.62	4.00	5.00	ug/L
92-52-4	1,1-Biphenyl	41.1		0.53	4.00	5.00	ug/L
91-58-7	2-Chloronaphthalene	41.2		0.61	4.00	5.00	ug/L
88-74-4	2-Nitroaniline	50.4		1.30	4.00	5.00	ug/L
131-11-3	Dimethylphthalate	44.5		0.61	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB167951BS	SDG No.:	Q1985
Lab Sample ID:	PB167951BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142386.D	1	05/12/25 08:40	05/15/25 11:06	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
208-96-8	Acenaphthylene	42.0		0.75	4.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	53.5		0.92	4.00	5.00	ug/L
99-09-2	3-Nitroaniline	26.9		1.10	4.00	5.00	ug/L
83-32-9	Acenaphthene	47.1		0.55	4.00	5.00	ug/L
51-28-5	2,4-Dinitrophenol	120	E	6.00	8.00	10.0	ug/L
100-02-7	4-Nitrophenol	110	E	2.40	8.00	10.0	ug/L
132-64-9	Dibenzofuran	41.5		0.61	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	57.7		1.20	4.00	5.00	ug/L
84-66-2	Diethylphthalate	44.2		0.69	4.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	42.6		0.68	4.00	5.00	ug/L
86-73-7	Fluorene	41.7		0.63	4.00	5.00	ug/L
100-01-6	4-Nitroaniline	58.5		1.50	4.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	55.9		2.90	8.00	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	42.0		0.58	4.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.6		0.40	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	44.1		0.52	4.00	5.00	ug/L
1912-24-9	Atrazine	49.0		1.00	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	110	E	1.60	8.00	10.0	ug/L
85-01-8	Phenanthrene	42.0		0.50	4.00	5.00	ug/L
120-12-7	Anthracene	41.4		0.61	4.00	5.00	ug/L
86-74-8	Carbazole	42.1		0.72	4.00	5.00	ug/L
84-74-2	Di-n-butylphthalate	45.7		1.20	4.00	5.00	ug/L
206-44-0	Fluoranthene	41.5		0.82	4.00	5.00	ug/L
129-00-0	Pyrene	46.2		0.50	4.00	5.00	ug/L
85-68-7	Butylbenzylphthalate	48.2		1.90	4.00	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	38.3		0.93	8.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	43.7		0.45	4.00	5.00	ug/L
218-01-9	Chrysene	43.5		0.44	4.00	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	48.0		1.60	4.00	5.00	ug/L
117-84-0	Di-n-octyl phthalate	49.2		2.30	8.00	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	43.2		0.49	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB167951BS	SDG No.:	Q1985
Lab Sample ID:	PB167951BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142386.D	1	05/12/25 08:40	05/15/25 11:06	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	43.6		0.48	4.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	46.1		0.55	4.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45.6		0.59	4.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	45.4		0.67	4.00	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	44.4		0.69	4.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	41.4		0.52	4.00	5.00	ug/L
123-91-1	1,4-Dioxane	31.9		1.00	4.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	50.6		0.72	4.00	5.00	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	119		19 - 119		80%	SPK: 150
13127-88-3	Phenol-d6	117		10 - 130		78%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.6		44 - 120		82%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.6		44 - 119		72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	142		43 - 140		95%	SPK: 150
1718-51-0	Terphenyl-d14	79.3		50 - 134		79%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	184000	6.904				
1146-65-2	Naphthalene-d8	709000	8.187				
15067-26-2	Acenaphthene-d10	390000	9.939				
1517-22-2	Phenanthrene-d10	684000	11.428				
1719-03-5	Chrysene-d12	359000	14.069				
1520-96-3	Perylene-d12	373000	15.557				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/08/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/09/25
Client Sample ID:	MW-3-20250508MS	SDG No.:	Q1985
Lab Sample ID:	Q1993-02MS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142388.D	1	05/12/25 08:40	05/15/25 12:18	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
100-52-7	Benzaldehyde	33.4		3.90	8.00	10.0	ug/L
108-95-2	Phenol	17.3		0.91	4.00	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	34.1		0.81	4.00	5.00	ug/L
95-57-8	2-Chlorophenol	37.9		0.58	4.00	5.00	ug/L
95-48-7	2-Methylphenol	31.6		1.10	4.00	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	38.8		1.30	4.00	5.00	ug/L
98-86-2	Acetophenone	42.8		0.74	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	28.4		1.10	8.00	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	42.7		1.40	2.50	2.50	ug/L
67-72-1	Hexachloroethane	33.9		0.65	4.00	5.00	ug/L
98-95-3	Nitrobenzene	46.1		0.76	4.00	5.00	ug/L
78-59-1	Isophorone	43.9		0.75	4.00	5.00	ug/L
88-75-5	2-Nitrophenol	51.3		1.80	4.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	40.9		1.90	4.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	42.7		0.68	4.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	44.9		0.52	4.00	5.00	ug/L
91-20-3	Naphthalene	40.6		0.50	4.00	5.00	ug/L
106-47-8	4-Chloroaniline	18.8		0.84	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	38.9		0.54	4.00	5.00	ug/L
105-60-2	Caprolactam	8.70	J	1.10	8.00	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	40.9		0.59	4.00	5.00	ug/L
91-57-6	2-Methylnaphthalene	42.6		0.56	4.00	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	84.3	E	3.60	8.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	51.2		0.51	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	46.6		0.62	4.00	5.00	ug/L
92-52-4	1,1-Biphenyl	43.7		0.53	4.00	5.00	ug/L
91-58-7	2-Chloronaphthalene	43.5		0.61	4.00	5.00	ug/L
88-74-4	2-Nitroaniline	50.5		1.30	4.00	5.00	ug/L
131-11-3	Dimethylphthalate	46.3		0.61	4.00	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/08/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/09/25
Client Sample ID:	MW-3-20250508MS	SDG No.:	Q1985
Lab Sample ID:	Q1993-02MS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142388.D	1	05/12/25 08:40	05/15/25 12:18	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
208-96-8	Acenaphthylene	43.4		0.75	4.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	54.9		0.92	4.00	5.00	ug/L
99-09-2	3-Nitroaniline	25.9		1.10	4.00	5.00	ug/L
83-32-9	Acenaphthene	48.1		0.55	4.00	5.00	ug/L
51-28-5	2,4-Dinitrophenol	110	E	6.00	8.00	10.0	ug/L
100-02-7	4-Nitrophenol	36.2		2.40	8.00	10.0	ug/L
132-64-9	Dibenzofuran	43.1		0.61	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	55.9		1.20	4.00	5.00	ug/L
84-66-2	Diethylphthalate	69.8		0.69	4.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.5		0.68	4.00	5.00	ug/L
86-73-7	Fluorene	42.5		0.63	4.00	5.00	ug/L
100-01-6	4-Nitroaniline	48.8		1.50	4.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	58.2		2.90	8.00	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	48.0		0.58	4.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	49.9		0.40	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	49.7		0.52	4.00	5.00	ug/L
1912-24-9	Atrazine	45.2		1.00	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	110	E	1.60	8.00	10.0	ug/L
85-01-8	Phenanthrene	44.7		0.50	4.00	5.00	ug/L
120-12-7	Anthracene	43.9		0.61	4.00	5.00	ug/L
86-74-8	Carbazole	40.4		0.72	4.00	5.00	ug/L
84-74-2	Di-n-butylphthalate	50.4		1.20	4.00	5.00	ug/L
206-44-0	Fluoranthene	39.8		0.82	4.00	5.00	ug/L
129-00-0	Pyrene	39.4		0.50	4.00	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.6		1.90	4.00	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	41.2		0.93	8.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	46.2		0.45	4.00	5.00	ug/L
218-01-9	Chrysene	45.6		0.44	4.00	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	56.7		1.60	4.00	5.00	ug/L
117-84-0	Di-n-octyl phthalate	55.5		2.30	8.00	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	46.4		0.49	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/08/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/09/25
Client Sample ID:	MW-3-20250508MS	SDG No.:	Q1985
Lab Sample ID:	Q1993-02MS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142388.D	1	05/12/25 08:40	05/15/25 12:18	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	46.4		0.48	4.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	48.8		0.55	4.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	40.3		0.59	4.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	39.9		0.67	4.00	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	37.7		0.69	4.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	43.5		0.52	4.00	5.00	ug/L
123-91-1	1,4-Dioxane	17.3		1.00	4.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.6		0.72	4.00	5.00	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	63.8		19 - 119		43%	SPK: 150
13127-88-3	Phenol-d6	41.3		10 - 130		28%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.9		44 - 120		86%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.0		44 - 119		76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		43 - 140		92%	SPK: 150
1718-51-0	Terphenyl-d14	68.2		50 - 134		68%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	173000	6.904				
1146-65-2	Naphthalene-d8	662000	8.187				
15067-26-2	Acenaphthene-d10	349000	9.939				
1517-22-2	Phenanthrene-d10	538000	11.428				
1719-03-5	Chrysene-d12	310000	14.069				
1520-96-3	Perylene-d12	368000	15.557				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/08/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/09/25
Client Sample ID:	MW-3-20250508MSD	SDG No.:	Q1985
Lab Sample ID:	Q1993-03MSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142389.D	1	05/12/25 08:40	05/15/25 12:47	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
100-52-7	Benzaldehyde	35.6		3.90	8.00	10.0	ug/L
108-95-2	Phenol	18.2		0.91	4.00	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	35.8		0.81	4.00	5.00	ug/L
95-57-8	2-Chlorophenol	39.7		0.58	4.00	5.00	ug/L
95-48-7	2-Methylphenol	34.1		1.10	4.00	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	40.9		1.30	4.00	5.00	ug/L
98-86-2	Acetophenone	45.0		0.74	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	30.0		1.10	8.00	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	45.8		1.40	2.50	2.50	ug/L
67-72-1	Hexachloroethane	36.3		0.65	4.00	5.00	ug/L
98-95-3	Nitrobenzene	48.4		0.76	4.00	5.00	ug/L
78-59-1	Isophorone	46.8		0.75	4.00	5.00	ug/L
88-75-5	2-Nitrophenol	55.7		1.80	4.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	43.3		1.90	4.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	45.9		0.68	4.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	47.9		0.52	4.00	5.00	ug/L
91-20-3	Naphthalene	43.3		0.50	4.00	5.00	ug/L
106-47-8	4-Chloroaniline	19.4		0.84	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	41.6		0.54	4.00	5.00	ug/L
105-60-2	Caprolactam	9.60	J	1.10	8.00	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.6		0.59	4.00	5.00	ug/L
91-57-6	2-Methylnaphthalene	45.0		0.56	4.00	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	85.8	E	3.60	8.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	53.2		0.51	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	48.5		0.62	4.00	5.00	ug/L
92-52-4	1,1-Biphenyl	45.0		0.53	4.00	5.00	ug/L
91-58-7	2-Chloronaphthalene	45.0		0.61	4.00	5.00	ug/L
88-74-4	2-Nitroaniline	54.1		1.30	4.00	5.00	ug/L
131-11-3	Dimethylphthalate	48.3		0.61	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/08/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/09/25
Client Sample ID:	MW-3-20250508MSD	SDG No.:	Q1985
Lab Sample ID:	Q1993-03MSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142389.D	1	05/12/25 08:40	05/15/25 12:47	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
208-96-8	Acenaphthylene	45.0		0.75	4.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	56.8		0.92	4.00	5.00	ug/L
99-09-2	3-Nitroaniline	25.9		1.10	4.00	5.00	ug/L
83-32-9	Acenaphthene	50.9		0.55	4.00	5.00	ug/L
51-28-5	2,4-Dinitrophenol	110	E	6.00	8.00	10.0	ug/L
100-02-7	4-Nitrophenol	37.9		2.40	8.00	10.0	ug/L
132-64-9	Dibenzofuran	44.7		0.61	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	58.4		1.20	4.00	5.00	ug/L
84-66-2	Diethylphthalate	72.5		0.69	4.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	46.2		0.68	4.00	5.00	ug/L
86-73-7	Fluorene	44.2		0.63	4.00	5.00	ug/L
100-01-6	4-Nitroaniline	51.9		1.50	4.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	62.4		2.90	8.00	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	50.3		0.58	4.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	52.6		0.40	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	52.2		0.52	4.00	5.00	ug/L
1912-24-9	Atrazine	49.0		1.00	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	110	E	1.60	8.00	10.0	ug/L
85-01-8	Phenanthrene	46.9		0.50	4.00	5.00	ug/L
120-12-7	Anthracene	46.4		0.61	4.00	5.00	ug/L
86-74-8	Carbazole	42.9		0.72	4.00	5.00	ug/L
84-74-2	Di-n-butylphthalate	54.2		1.20	4.00	5.00	ug/L
206-44-0	Fluoranthene	42.6		0.82	4.00	5.00	ug/L
129-00-0	Pyrene	42.7		0.50	4.00	5.00	ug/L
85-68-7	Butylbenzylphthalate	58.8		1.90	4.00	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	42.8		0.93	8.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	48.7		0.45	4.00	5.00	ug/L
218-01-9	Chrysene	48.5		0.44	4.00	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	60.9		1.60	4.00	5.00	ug/L
117-84-0	Di-n-octyl phthalate	57.3		2.30	8.00	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	47.6		0.49	4.00	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/08/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/09/25
Client Sample ID:	MW-3-20250508MSD	SDG No.:	Q1985
Lab Sample ID:	Q1993-03MSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142389.D	1	05/12/25 08:40	05/15/25 12:47	PB167951

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	48.5		0.48	4.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	50.3		0.55	4.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	40.8		0.59	4.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	40.4		0.67	4.00	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	37.8		0.69	4.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	44.9		0.52	4.00	5.00	ug/L
123-91-1	1,4-Dioxane	18.2		1.00	4.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	50.9		0.72	4.00	5.00	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	67.2		19 - 119		45%	SPK: 150
13127-88-3	Phenol-d6	43.9		10 - 130		29%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.4		44 - 120		90%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.7		44 - 119		79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	144		43 - 140		96%	SPK: 150
1718-51-0	Terphenyl-d14	73.5		50 - 134		74%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	173000	6.904				
1146-65-2	Naphthalene-d8	662000	8.186				
15067-26-2	Acenaphthene-d10	357000	9.939				
1517-22-2	Phenanthrene-d10	547000	11.427				
1719-03-5	Chrysene-d12	314000	14.068				
1520-96-3	Perylene-d12	374000	15.557				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF050525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon May 05 18:41:44 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142295.D 5 =BF142296.D 10 =BF142297.D 20 =BF142298.D 40 =BF142299.D 50 =BF142300.D 60 =BF142301.D 80 =BF1423
02.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.553	0.527	0.535	0.503	0.543	0.521	0.511	0.528	3.36
3)		Pyridine		1.159	1.233	1.210	1.176	1.311	1.312	1.270	1.239	4.99
4)		n-Nitrosodimet...		0.718	0.707	0.729	0.696	0.759	0.726	0.705	0.720	2.88
5)	S	2-Fluorophenol		1.212	1.177	1.211	1.126	1.224	1.165	1.086	1.172	4.35
6)		Aniline		0.955	1.370	1.568	1.467	1.543	1.519	1.472	1.413	15.03
7)	S	Phenol-d6		1.510	1.458	1.489	1.375	1.500	1.419	1.336	1.441	4.64
8)		2-Chlorophenol		1.202	1.223	1.263	1.221	1.346	1.283	1.225	1.252	4.00
9)		Benzaldehyde		1.049	0.959	0.903	0.734	0.752	0.663		0.843	17.74
10)	C	Phenol		1.599	1.528	1.584	1.472	1.580	1.524	1.405	1.527	4.55
11)		bis(2-Chloroet...		1.789	1.543	1.510	1.353	1.516	1.441	1.392	1.506	9.49
12)		1,3-Dichlorobe...		1.555	1.505	1.466	1.347	1.477	1.379	1.298	1.432	6.48
13)	C	1,4-Dichlorobe...		1.562	1.499	1.486	1.364	1.476	1.386	1.294	1.438	6.46
14)		1,2-Dichlorobe...		1.480	1.432	1.415	1.317	1.424	1.340	1.254	1.380	5.71
15)		Benzyl Alcohol		0.816	0.843	0.933	0.928	1.030	1.008	0.972	0.933	8.56
16)		2,2'-oxybis(1-...		2.379	2.310	2.325	2.135	2.341	2.211	2.044	2.249	5.48
17)		2-Methylphenol		1.033	1.008	1.022	0.972	1.070	1.013	0.978	1.014	3.30
18)		Hexachloroethane		0.473	0.464	0.488	0.463	0.511	0.487	0.463	0.478	3.78
19)	P	n-Nitroso-di-n...	0.840	0.943	0.915	0.918	0.860	0.933	0.885	0.837	0.891	4.69
20)		3+4-Methylphenols		1.354	1.281	1.322	1.218	1.333	1.226	1.121	1.265	6.48
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.505	0.474	0.464	0.416	0.446	0.419	0.389	0.445	8.95
23)	S	Nitrobenzene-d5		0.289	0.304	0.336	0.327	0.360	0.348	0.332	0.328	7.48
24)		Nitrobenzene		0.281	0.293	0.316	0.306	0.337	0.325	0.305	0.309	6.05
25)		Isophorone		0.639	0.623	0.630	0.586	0.648	0.622	0.598	0.621	3.53
26)	C	2-Nitrophenol		0.089	0.097	0.121	0.132	0.154	0.155	0.155	0.129	21.55
27)		2,4-Dimethylph...		0.311	0.314	0.321	0.298	0.329	0.314	0.299	0.312	3.55
28)		bis(2-Chloroet...		0.430	0.414	0.418	0.374	0.408	0.386	0.366	0.399	6.09
29)	C	2,4-Dichloroph...		0.245	0.251	0.278	0.263	0.288	0.274	0.260	0.265	5.71
30)		1,2,4-Trichlor...		0.329	0.309	0.309	0.281	0.304	0.289	0.271	0.299	6.60
31)		Naphthalene		1.102	1.031	1.028	0.906	0.978	0.906	0.835	0.969	9.52
32)		Benzoic acid			0.084	0.117	0.140	0.178	0.186	0.194	0.150	29.22
33)		4-Chloroaniline		0.373	0.373	0.398	0.383	0.435	0.415	0.392	0.396	5.80
34)	C	Hexachlorobuta...		0.188	0.182	0.181	0.168	0.185	0.173	0.162	0.177	5.32
35)		Caprolactam		0.063	0.068	0.078	0.079	0.088	0.083	0.082	0.077	11.39
36)	C	4-Chloro-3-met...		0.281	0.270	0.283	0.265	0.290	0.279	0.262	0.276	3.68
37)		2-Methylnaphth...		0.672	0.636	0.635	0.569	0.615	0.568	0.521	0.602	8.60
38)		1-Methylnaphth...		0.710	0.675	0.665	0.594	0.630	0.587	0.535	0.628	9.59

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF050525.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.600	0.586	0.586	0.515	0.574	0.538	0.512	0.559	6.51
41)	P	Hexachlorocycl...	0.286	0.303	0.349	0.343	0.388	0.379	0.369	0.345	11.16
42)	S	2,4,6-Tribromo...	0.161	0.176	0.198	0.191	0.218	0.210	0.197	0.193	10.16
43)	C	2,4,6-Trichlor...	0.306	0.320	0.360	0.351	0.393	0.371	0.365	0.352	8.53
44)		2,4,5-Trichlor...	0.339	0.353	0.390	0.363	0.413	0.397	0.369	0.375	7.00
45)	S	2-Fluorobiphenyl	1.737	1.605	1.532	1.272	1.337	1.246	1.090	1.403	16.29
46)		1,1'-Biphenyl	1.727	1.641	1.637	1.411	1.567	1.442	1.310	1.533	9.75
47)		2-Chloronaphth...	1.256	1.198	1.193	1.058	1.155	1.106	1.018	1.140	7.40
48)		2-Nitroaniline	0.205	0.240	0.292	0.298	0.344	0.337	0.330	0.292	17.90
49)		Acenaphthylene	2.083	2.025	2.009	1.783	1.958	1.830	1.665	1.908	7.94
50)		Dimethylphthalate	1.338	1.295	1.344	1.210	1.342	1.275	1.186	1.284	5.04
51)		2,6-Dinitrotol...	0.172	0.206	0.242	0.245	0.280	0.273	0.263	0.240	16.19
52)	C	Acenaphthene	1.260	1.191	1.200	1.066	1.180	1.111	1.021	1.147	7.32
53)		3-Nitroaniline	0.206	0.238	0.288	0.286	0.329	0.319	0.307	0.282	15.80
54)	P	2,4-Dinitrophenol		0.062	0.083	0.097	0.120	0.124	0.127	0.102	25.44
55)		Dibenzofuran	1.932	1.790	1.801	1.555	1.711	1.609	1.453	1.693	9.72
56)	P	4-Nitrophenol	0.159	0.178	0.210	0.214	0.253	0.240	0.231	0.212	15.82
57)		2,4-Dinitrotol...	0.222	0.250	0.303	0.318	0.368	0.355	0.341	0.308	17.63
58)		Fluorene	1.521	1.407	1.374	1.195	1.283	1.183	1.080	1.292	11.77
59)		2,3,4,6-Tetrac...	0.266	0.288	0.320	0.305	0.344	0.329	0.314	0.309	8.38
60)		Diethylphthalate	1.344	1.325	1.355	1.207	1.344	1.252	1.151	1.283	6.27
61)		4-Chlorophenyl...	0.699	0.666	0.658	0.577	0.638	0.590	0.535	0.623	9.26
62)		4-Nitroaniline	0.207	0.230	0.248	0.225	0.240	0.219	0.195	0.223	8.23
63)		Azobenzene	1.338	1.271	1.285	1.132	1.270	1.185	1.098	1.226	7.23
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.052	0.068	0.081	0.094	0.098	0.101	0.082	23.49
66)	c	n-Nitrosodiphe...	0.704	0.683	0.693	0.629	0.686	0.654	0.610	0.666	5.28
67)		4-Bromophenyl-...	0.230	0.227	0.232	0.216	0.238	0.227	0.217	0.227	3.44
68)		Hexachlorobenzene	0.264	0.246	0.253	0.237	0.258	0.248	0.240	0.249	3.84
69)		Atrazine	0.157	0.165	0.176	0.174	0.196	0.185	0.175	0.175	7.17
70)	C	Pentachlorophenol	0.094	0.109	0.130	0.139	0.153	0.150	0.144	0.131	16.65
71)		Phenanthrene	1.193	1.102	1.105	0.988	1.058	0.987	0.906	1.048	9.14
72)		Anthracene	1.210	1.136	1.134	1.018	1.093	1.023	0.927	1.077	8.77
73)		Carbazole	1.065	1.016	1.024	0.926	0.986	0.911	0.837	0.966	8.17
74)		Di-n-butylphth...	0.957	1.022	1.082	1.013	1.093	1.019	0.928	1.016	5.91
75)	C	Fluoranthene	1.198	1.154	1.128	0.985	1.051	0.956	0.863	1.048	11.46
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.272	0.384	0.358	0.426	0.403	0.337	0.363	15.09
78)		Pyrene	1.822	1.748	1.902	1.705	1.912	1.817	1.555	1.780	6.99
79)	S	Terphenyl-d14	1.493	1.424	1.460	1.255	1.390	1.314	1.123	1.351	9.61
80)		Butylbenzylpht...	0.282	0.330	0.439	0.469	0.545	0.549	0.527	0.449	23.70
81)		Benzo(a)anthra...	1.370	1.299	1.317	1.238	1.354	1.296	1.192	1.295	4.84
82)		3,3'-Dichlorob...	0.250	0.279	0.316	0.296	0.327	0.323	0.317	0.301	9.40
83)		Chrysene	1.294	1.227	1.247	1.104	1.238	1.203	1.128	1.206	5.59
84)		Bis(2-ethylhex...	0.328	0.417	0.557	0.601	0.699	0.716	0.697	0.573	26.35
85)	c	Di-n-octyl pht...		0.586	0.856	1.029	1.242	1.315	1.317	1.057	27.77

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF050525.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.152	1.281	1.421	1.384	1.596	1.504	1.402	1.391	10.38
88)		Benzo(b)fluora...	1.312	1.216	1.227	1.163	1.263	1.142	1.156	1.211	5.14
89)		Benzo(k)fluora...	1.158	1.142	1.164	1.040	1.172	1.114	0.969	1.109	6.88
90)	C	Benzo(a)pyrene	1.034	1.042	1.102	1.066	1.183	1.119	1.054	1.085	4.88
91)		Dibenzo(a,h)an...	0.987	1.066	1.194	1.137	1.308	1.224	1.129	1.149	9.17
92)		Benzo(g,h,i)pe...	0.971	1.056	1.175	1.120	1.295	1.225	1.143	1.141	9.37

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: BNA_F Calibration Date/Time: 05/15/2025 10:08

Lab File ID: BF142384.D Init. Calib. Date(s): 05/05/2025 05/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:54 17:15

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.185		1.1	
Benzaldehyde	0.843	0.790		-6.3	
Phenol-d6	1.441	1.453		0.8	
Phenol	1.531	1.687		10.2	20.0
bis(2-Chloroethyl)ether	1.506	1.206		-19.9	
2-Chlorophenol	1.252	1.341		7.1	
2-Methylphenol	1.014	1.020		0.6	
2,2-oxybis(1-Chloropropane)	2.249	2.090		-7.1	
Acetophenone	0.445	0.432		-2.9	
3+4-Methylphenols	1.265	1.281		1.3	
n-Nitroso-di-n-propylamine	0.891	0.887	0.050	-0.4	
Nitrobenzene-d5	0.328	0.363		10.7	
Hexachloroethane	0.478	0.498		4.2	
Nitrobenzene	0.309	0.329		6.5	
Isophorone	0.621	0.611		-1.6	
2-Nitrophenol	0.129	0.180		39.5	20.0
2,4-Dimethylphenol	0.312	0.317		1.6	
bis(2-Chloroethoxy)methane	0.399	0.377		-5.5	
2,4-Dichlorophenol	0.265	0.282		6.4	20.0
Naphthalene	0.969	0.952		-1.8	
4-Chloroaniline	0.395	0.395		0.0	
Hexachlorobutadiene	0.177	0.180		1.7	20.0
Caprolactam	0.077	0.085		10.4	
4-Chloro-3-methylphenol	0.276	0.298		8.0	20.0
2-Methylnaphthalene	0.602	0.598		-0.7	
Hexachlorocyclopentadiene	0.345	0.391	0.050	13.3	
2,4,6-Trichlorophenol	0.352	0.393		11.6	20.0
2-Fluorobiphenyl	1.403	1.334		-4.9	
2,4,5-Trichlorophenol	0.375	0.404		7.7	
1,1-Biphenyl	1.533	1.496		-2.4	
2-Chloronaphthalene	1.140	1.126		-1.2	
2-Nitroaniline	0.292	0.343		17.5	
Dimethylphthalate	1.284	1.305		1.6	
Acenaphthylene	1.908	1.887		-1.1	
2,6-Dinitrotoluene	0.240	0.287		19.6	
3-Nitroaniline	0.282	0.328		16.3	
Acenaphthene	1.147	1.167		1.7	20.0
2,4-Dinitrophenol	0.102	0.155	0.050	52.0	
4-Nitrophenol	0.212	0.270	0.050	27.4	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: BNA_F Calibration Date/Time: 05/15/2025 10:08

Lab File ID: BF142384.D Init. Calib. Date(s): 05/05/2025 05/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:54 17:15

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.693	1.670		-1.4	
2,4-Dinitrotoluene	0.308	0.387		25.6	
Diethylphthalate	1.283	1.268		-1.2	
4-Chlorophenyl-phenylether	0.623	0.627		0.6	
Fluorene	1.292	1.258		-2.6	
4-Nitroaniline	0.223	0.271		21.5	
4,6-Dinitro-2-methylphenol	0.082	0.118		43.9	
n-Nitrosodiphenylamine	0.666	0.652		-2.1	20.0
2,4,6-Tribromophenol	0.193	0.228		18.1	
4-Bromophenyl-phenylether	0.227	0.229		0.9	
Hexachlorobenzene	0.249	0.253		1.6	
Atrazine	0.175	0.181		3.4	
Pentachlorophenol	0.131	0.161		22.9	20.0
Phenanthrene	1.048	1.011		-3.5	
Anthracene	1.077	1.047		-2.8	
Carbazole	0.966	0.919		-4.9	
Di-n-butylphthalate	1.016	1.002		-1.4	
Fluoranthene	1.048	0.966		-7.8	20.0
Pyrene	1.780	1.890		6.2	
Terphenyl-d14	1.351	1.396		3.3	
Butylbenzylphthalate	0.449	0.554		23.4	
3,3-Dichlorobenzidine	0.301	0.406		34.9	
Benzo(a)anthracene	1.295	1.280		-1.2	
Chrysene	1.206	1.167		-3.2	
Bis(2-ethylhexyl)phthalate	0.573	0.758		32.3	
Di-n-octyl phthalate	1.057	1.421		34.4	20.0
Benzo(b)fluoranthene	1.211	1.181		-2.5	
Benzo(k)fluoranthene	1.109	1.054		-5.0	
Benzo(a)pyrene	1.085	1.112		2.5	20.0
Indeno(1,2,3-cd)pyrene	1.391	1.459		4.9	
Dibenzo(a,h)anthracene	1.149	1.182		2.9	
Benzo(g,h,i)perylene	1.141	1.160		1.7	
1,2,4,5-Tetrachlorobenzene	0.559	0.562		0.5	
1,4-Dioxane	0.528	0.494		-6.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.350		13.3	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: BNA_F Calibration Date/Time: 05/15/2025 13:58

Lab File ID: BF142391.D Init. Calib. Date(s): 05/05/2025 05/05/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 13:54 17:15

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.203		2.6	50.0
Benzaldehyde	0.843	0.813		-3.6	50.0
Phenol-d6	1.441	1.447		0.4	50.0
Phenol	1.531	1.640		7.1	50.0
bis(2-Chloroethyl)ether	1.506	1.172		-22.2	50.0
2-Chlorophenol	1.252	1.315		5.0	50.0
2-Methylphenol	1.014	1.011		-0.3	50.0
2,2-oxybis(1-Chloropropane)	2.249	2.025		-10.0	50.0
Acetophenone	0.445	0.431		-3.1	50.0
3+4-Methylphenols	1.265	1.273		0.6	50.0
n-Nitroso-di-n-propylamine	0.891	0.836	0.050	-6.2	50.0
Nitrobenzene-d5	0.328	0.364		11.0	50.0
Hexachloroethane	0.478	0.492		2.9	50.0
Nitrobenzene	0.309	0.335		8.4	50.0
Isophorone	0.621	0.594		-4.3	50.0
2-Nitrophenol	0.129	0.183		41.9	50.0
2,4-Dimethylphenol	0.312	0.320		2.6	50.0
bis(2-Chloroethoxy)methane	0.399	0.372		-6.8	50.0
2,4-Dichlorophenol	0.265	0.283		6.8	50.0
Naphthalene	0.969	0.958		-1.1	50.0
4-Chloroaniline	0.395	0.394		-0.3	50.0
Hexachlorobutadiene	0.177	0.182		2.8	50.0
Caprolactam	0.077	0.086		11.7	50.0
4-Chloro-3-methylphenol	0.276	0.283		2.5	50.0
2-Methylnaphthalene	0.602	0.589		-2.2	50.0
Hexachlorocyclopentadiene	0.345	0.392	0.050	13.6	50.0
2,4,6-Trichlorophenol	0.352	0.391		11.1	50.0
2-Fluorobiphenyl	1.403	1.336		-4.8	50.0
2,4,5-Trichlorophenol	0.375	0.400		6.7	50.0
1,1-Biphenyl	1.533	1.493		-2.6	50.0
2-Chloronaphthalene	1.140	1.130		-0.9	50.0
2-Nitroaniline	0.292	0.352		20.5	50.0
Dimethylphthalate	1.284	1.277		-0.5	50.0
Acenaphthylene	1.908	1.885		-1.2	50.0
2,6-Dinitrotoluene	0.240	0.283		17.9	50.0
3-Nitroaniline	0.282	0.326		15.6	50.0
Acenaphthene	1.147	1.148		0.1	50.0
2,4-Dinitrophenol	0.102	0.159	0.050	55.9	50.0
4-Nitrophenol	0.212	0.259	0.050	22.2	50.0

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: BNA_F Calibration Date/Time: 05/15/2025 13:58

Lab File ID: BF142391.D Init. Calib. Date(s): 05/05/2025 05/05/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 13:54 17:15

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.693	1.652		-2.4	50.0
2,4-Dinitrotoluene	0.308	0.385		25.0	50.0
Diethylphthalate	1.283	1.218		-5.1	50.0
4-Chlorophenyl-phenylether	0.623	0.608		-2.4	50.0
Fluorene	1.292	1.257		-2.7	50.0
4-Nitroaniline	0.223	0.293		31.4	50.0
4,6-Dinitro-2-methylphenol	0.082	0.120		46.3	50.0
n-Nitrosodiphenylamine	0.666	0.654		-1.8	50.0
2,4,6-Tribromophenol	0.193	0.222		15.0	50.0
4-Bromophenyl-phenylether	0.227	0.224		-1.3	50.0
Hexachlorobenzene	0.249	0.251		0.8	50.0
Atrazine	0.175	0.184		5.1	50.0
Pentachlorophenol	0.131	0.160		22.1	50.0
Phenanthrene	1.048	1.024		-2.3	50.0
Anthracene	1.077	1.062		-1.4	50.0
Carbazole	0.966	0.948		-1.9	50.0
Di-n-butylphthalate	1.016	0.982		-3.3	50.0
Fluoranthene	1.048	0.996		-5.0	50.0
Pyrene	1.780	1.890		6.2	50.0
Terphenyl-d14	1.351	1.383		2.4	50.0
Butylbenzylphthalate	0.449	0.500		11.4	50.0
3,3-Dichlorobenzidine	0.301	0.418		38.9	50.0
Benzo(a)anthracene	1.295	1.335		3.1	50.0
Chrysene	1.206	1.161		-3.7	50.0
Bis(2-ethylhexyl)phthalate	0.573	0.629		9.8	50.0
Di-n-octyl phthalate	1.057	1.255		18.7	50.0
Benzo(b)fluoranthene	1.211	1.234		1.9	50.0
Benzo(k)fluoranthene	1.109	0.959		-13.5	50.0
Benzo(a)pyrene	1.085	1.102		1.6	50.0
Indeno(1,2,3-cd)pyrene	1.391	1.484		6.7	50.0
Dibenzo(a,h)anthracene	1.149	1.193		3.8	50.0
Benzo(g,h,i)perylene	1.141	1.188		4.1	50.0
1,2,4,5-Tetrachlorobenzene	0.559	0.568		1.6	50.0
1,4-Dioxane	0.528	0.512		-3.0	50.0
2,3,4,6-Tetrachlorophenol	0.309	0.339		9.7	50.0

All other compounds must meet a minimum RRF of 0.010.

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LAB CHRONICLE

OrderID:	Q1985	**OrderDate:**	5/8/2025 10:49:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1985-01	**RW8-BW-20250507**	**Water**			**05/07/25**			**05/08/25**
			SVOC-SIMGroup1	8270-Modified		05/13/25	05/14/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :									
				0.000					
			Total Svoc :		**0.00**				
			Total Concentration:		**0.00**				

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/08/25
Client Sample ID:	RW8-BW-20250507	SDG No.:	Q1985
Lab Sample ID:	Q1985-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037015.D	1	05/13/25 08:49	05/14/25 16:48	PB167952

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.19		30 - 150		47%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2210	7.611				
1146-65-2	Naphthalene-d8	6240	10.394				
15067-26-2	Acenaphthene-d10	3930	14.267				
1517-22-2	Phenanthrene-d10	7460	17.009				
1719-03-5	Chrysene-d12	6420	21.207				
1520-96-3	Perylene-d12	5730	23.415				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB167952BL	PB167952BL	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
PB167952BS	PB167952BS	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
PB167952BSD	PB167952BSD	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.39	96		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.41	103		58	132
Q1985-01	RW8-BW-20250507	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.19	47		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.31	79		53	106
		Terphenyl-d14	0.4	0.40	101		58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037021.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167952BS	1,4-Dioxane	0.4	0.36	ug/L	90				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037022.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167952BSD	1,4-Dioxane	0.4	0.40	ug/L	100	11			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167952BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985

Lab File ID: BN037010.D Lab Sample ID: PB167952BL

Instrument ID: BNA_N Date Extracted: 05/13/2025

Matrix: (soil/water) Water Date Analyzed: 05/14/2025

Level: (low/med) LOW Time Analyzed: 11:20

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167952BS	PB167952BS	BN037021.D	05/14/2025
RW8-BW-20250507	Q1985-01	BN037015.D	05/14/2025
PB167952BSD	PB167952BSD	BN037022.D	05/14/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1985 SDG NO.: Q1985

Lab File ID: BN036998.D DFTPP Injection Date: 05/13/2025

Instrument ID: BNA_N DFTPP Injection Time: 17:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	62.8
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	55.6
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	52.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	23.8
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	8.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.4 (19) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN036999.D	05/13/2025	17:41
SSTDICC0.2	SSTDICC0.2	BN037000.D	05/13/2025	18:17
SSTDICCC0.4	SSTDICCC0.4	BN037001.D	05/13/2025	18:53
SSTDICC0.8	SSTDICC0.8	BN037002.D	05/13/2025	19:29
SSTDICC1.6	SSTDICC1.6	BN037003.D	05/13/2025	20:05
SSTDICC3.2	SSTDICC3.2	BN037004.D	05/13/2025	20:41
SSTDICC5.0	SSTDICC5.0	BN037005.D	05/13/2025	21:17

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1985 SDG NO.: Q1985

Lab File ID: BN037008.D DFTPP Injection Date: 05/14/2025

Instrument ID: BNA_N DFTPP Injection Time: 09:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	71.5
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	59.2
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	55.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	8.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.2 (18.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037009.D	05/14/2025	10:31
PB167952BL	PB167952BL	BN037010.D	05/14/2025	11:20
RW8-BW-20250507	Q1985-01	BN037015.D	05/14/2025	16:48
PB167952BS	PB167952BS	BN037021.D	05/14/2025	20:24
PB167952BSD	PB167952BSD	BN037022.D	05/14/2025	21:00
SSTDCCC0.4EC	SSTDCCC0.4	BN037023.D	05/14/2025	21:36

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/14/2025

Lab File ID: BN037009.D Time Analyzed: 10:31

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	1633	7.618	4300	10.39	2444	14.27
	UPPER LIMIT	3266	8.118	8600	10.894	4888	14.767
	LOWER LIMIT	816.5	7.118	2150	9.894	1222	13.767
	EPA SAMPLE NO.						
01	PB167952BL	1697	7.62	4346	10.40	2391	14.27
02	PB167952BS	2111	7.62	5540	10.39	3182	14.27
03	PB167952BSD	1677	7.62	4591	10.39	2680	14.27
04	RW8-BW-20250507	2212	7.61	6244	10.39	3930	14.27

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Alliance TECHNICAL GROUP
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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/14/2025

Lab File ID: BN037009.D Time Analyzed: 10:31

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	4780	17.009	4137	21.215	4043	23.421
	UPPER LIMIT	9560	17.509	8274	21.715	8086	23.921
	LOWER LIMIT	2390	16.509	2068.5	20.715	2021.5	22.921
	EPA SAMPLE NO.						
01	PB167952BL	4921	17.02	4198	21.22	4092	23.42
02	PB167952BS	6367	17.01	4959	21.21	4122	23.41
03	PB167952BSD	5142	17.01	4350	21.21	3999	23.41
04	RW8-BW-20250507	7458	17.01	6424	21.21	5729	23.42

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB167952BL	SDG No.:	Q1985
Lab Sample ID:	PB167952BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037010.D	1	05/13/25 08:49	05/14/25 11:20	PB167952

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1700	7.618				
1146-65-2	Naphthalene-d8	4350	10.404				
15067-26-2	Acenaphthene-d10	2390	14.267				
1517-22-2	Phenanthrene-d10	4920	17.021				
1719-03-5	Chrysene-d12	4200	21.215				
1520-96-3	Perylene-d12	4090	23.418				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB167952BS	SDG No.:	Q1985
Lab Sample ID:	PB167952BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037021.D	1	05/13/25 08:49	05/14/25 20:24	PB167952

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.36		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2110	7.618				
1146-65-2	Naphthalene-d8	5540	10.394				
15067-26-2	Acenaphthene-d10	3180	14.267				
1517-22-2	Phenanthrene-d10	6370	17.009				
1719-03-5	Chrysene-d12	4960	21.207				
1520-96-3	Perylene-d12	4120	23.41				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB167952BSD	SDG No.:	Q1985
Lab Sample ID:	PB167952BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037022.D	1	05/13/25 08:49	05/14/25 21:00	PB167952

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.40		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		96%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		103%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1680	7.618				
1146-65-2	Naphthalene-d8	4590	10.394				
15067-26-2	Acenaphthene-d10	2680	14.267				
1517-22-2	Phenanthrene-d10	5140	17.009				
1719-03-5	Chrysene-d12	4350	21.207				
1520-96-3	Perylene-d12	4000	23.407				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN051425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed May 14 11:26:32 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN036999.D 0.2 =BN037000.D 0.4 =BN037001.D 0.8 =BN037002.D 1.6 =BN037003.D 3.2 =BN037004.D 5.0 =BN037005.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane		0.510	0.512	0.487	0.514	0.467	0.454	0.491	5.25
3)		n-Nitrosodimet...	1.465	0.974	0.980	0.971	1.075	0.967	0.950	1.054	17.59
4)	S	2-Fluorophenol		1.101	1.134	1.024	1.093	0.964	0.971	1.048	6.87
5)	S	Phenol-d6		1.304	1.385	1.236	1.392	1.259	1.292	1.311	4.91
6)		bis(2-Chloroet...	1.441	1.163	1.153	1.135	1.240	1.168	1.148	1.207	9.02
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.546	0.383	0.398	0.400	0.452	0.426	0.442	0.436	12.60
9)		Naphthalene	1.326	1.140	1.144	1.122	1.226	1.152	1.165	1.182	6.05
10)		Hexachlorobuta...	0.286	0.248	0.244	0.235	0.256	0.236	0.233	0.248	7.47
11)	SURR	2-Methylnaphth...	0.529	0.547	0.552	0.548	0.603	0.574	0.588	0.563	4.65
12)		2-Methylnaphth...	0.754	0.724	0.736	0.733	0.814	0.770	0.790	0.760	4.34
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.174	0.168	0.178	0.160	0.186	0.175	0.189	0.176	5.77
15)	S	2-Fluorobiphenyl	1.912	1.801	1.901	1.802	1.927	1.672	1.807	1.832	4.90
16)		Acenaphthylene	1.906	1.838	1.894	1.849	2.071	1.997	2.075	1.947	5.14
17)		Acenaphthene	1.255	1.229	1.243	1.217	1.350	1.298	1.315	1.272	3.89
18)		Fluorene	1.602	1.581	1.635	1.611	1.779	1.721	1.752	1.669	4.80
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.060	0.073	0.079	0.102	0.103	0.124	0.090	26.02
21)		4-Bromophenyl-...	0.243	0.246	0.250	0.247	0.262	0.261	0.259	0.253	3.13
22)		Hexachlorobenzene	0.267	0.269	0.281	0.259	0.281	0.270	0.267	0.270	3.03
23)		Atrazine	0.199	0.207	0.211	0.213	0.237	0.234	0.242	0.220	7.64
24)		Pentachlorophenol	0.133	0.134	0.141	0.137	0.159	0.162	0.177	0.149	11.45
25)		Phenanthrene	1.259	1.272	1.292	1.263	1.367	1.337	1.361	1.307	3.56
26)		Anthracene	1.099	1.104	1.166	1.130	1.269	1.259	1.300	1.190	7.13
27)	SURR	Fluoranthene-d10	1.033	1.033	1.078	1.042	1.153	1.161	1.178	1.097	5.95
28)		Fluoranthene	1.461	1.439	1.500	1.496	1.670	1.672	1.693	1.562	7.13
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.744	1.708	1.727	1.656	1.790	1.641	1.711	1.711	2.96
31)	S	Terphenyl-d14	0.897	0.844	0.871	0.822	0.891	0.816	0.848	0.856	3.73
32)		Benzo(a)anthra...	1.463	1.432	1.485	1.438	1.594	1.521	1.609	1.506	4.77
33)		Chrysene	1.655	1.559	1.616	1.532	1.653	1.560	1.576	1.593	3.05
34)		Bis(2-ethylhex...	0.955	0.919	0.906	0.855	0.941	0.903	1.011	0.927	5.27
35)	I	Perylene-d12	----------ISTD----------								

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: BNA_N Calibration Date/Time: 05/14/2025 10:31

Lab File ID: BN037009.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 17:41 21:17

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.563	0.552		-2.0	20.0
Fluoranthene-d10	1.097	1.065		-2.9	20.0
2-Fluorophenol	1.048	1.078		2.9	20.0
Phenol-d6	1.311	1.303		-0.6	20.0
Nitrobenzene-d5	0.436	0.407		-6.7	20.0
2-Fluorobiphenyl	1.832	1.850		1.0	20.0
2,4,6-Tribromophenol	0.176	0.176		0.0	20.0
Terphenyl-d14	0.856	0.892		4.2	20.0
1,4-Dioxane	0.491	0.448		-8.8	20.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: BNA_N Calibration Date/Time: 05/14/2025 21:36

Lab File ID: BN037023.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 17:41 21:17

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.563	0.559		-0.7	50.0
Fluoranthene-d10	1.097	1.047		-4.6	50.0
2-Fluorophenol	1.048	1.129		7.7	50.0
Phenol-d6	1.311	1.364		4.0	50.0
Nitrobenzene-d5	0.436	0.406		-6.9	50.0
2-Fluorobiphenyl	1.832	1.894		3.3	50.0
2,4,6-Tribromophenol	0.176	0.178		1.1	50.0
Terphenyl-d14	0.856	0.900		5.1	50.0
1,4-Dioxane	0.491	0.508		3.5	50.0

All other compounds must meet a minimum RRF of 0.010.

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LAB CHRONICLE

OrderID:	Q1985	**OrderDate:**	5/8/2025 10:49:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1985-01	**RW8-BW-20250507**	**Water**			**05/07/25**			**05/08/25**
			Mercury	7470A		05/13/25	05/14/25	
			Metals ICP-TAL	6010D		05/12/25	05/15/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1985 **Order ID:** Q1985

Client: Tetra Tech NUS, Inc. **Project ID:** NWIRP Bethpage 112G08005-WE13

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**RW8-BW-20250507**								
Q1985-01	RW8-BW-20250507	Water	Aluminum	24.0	J	5.67	40.0	50.0	ug/L
Q1985-01	RW8-BW-20250507	Water	Calcium	1380		117	250	1000	ug/L
Q1985-01	RW8-BW-20250507	Water	Chromium	2.48	J	1.06	2.50	5.00	ug/L
Q1985-01	RW8-BW-20250507	Water	Iron	678		11.7	40.0	50.0	ug/L
Q1985-01	RW8-BW-20250507	Water	Magnesium	1330		122	250	1000	ug/L
Q1985-01	RW8-BW-20250507	Water	Manganese	52.0		2.97	7.50	10.0	ug/L
Q1985-01	RW8-BW-20250507	Water	Potassium	333000		459	800	1000	ug/L
Q1985-01	RW8-BW-20250507	Water	Sodium	44800		434	500	1000	ug/L

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/08/25
Client Sample ID:	RW8-BW-20250507	SDG No.:	Q1985
Lab Sample ID:	Q1985-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	24.0	J	1	5.67	40.0	50.0	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-36-0	Antimony	6.25	U	1	3.38	6.25	25.0	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-38-2	Arsenic	7.50	U	1	2.56	7.50	10.0	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-39-3	Barium	12.5	U	1	7.28	12.5	50.0	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-41-7	Beryllium	0.75	U	1	0.28	0.75	3.00	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-43-9	Cadmium	0.75	U	1	0.25	0.75	3.00	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-70-2	Calcium	1380		1	117	250	1000	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-47-3	Chromium	2.48	J	1	1.06	2.50	5.00	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-48-4	Cobalt	3.75	U	1	1.13	3.75	15.0	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-50-8	Copper	8.00	U	1	2.30	8.00	10.0	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7439-89-6	Iron	678		1	11.7	40.0	50.0	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7439-92-1	Lead	4.80	U	1	1.15	4.80	6.00	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7439-95-4	Magnesium	1330		1	122	250	1000	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7439-96-5	Manganese	52.0	N*	1	2.97	7.50	10.0	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7439-97-6	Mercury	0.16	UN	1	0.076	0.16	0.20	ug/L	05/13/25 14:20	05/14/25 14:11	7470A	
7440-02-0	Nickel	5.00	U	1	1.53	5.00	20.0	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-09-7	Potassium	333000		1	459	800	1000	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7782-49-2	Selenium	8.00	U	1	4.82	8.00	10.0	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-22-4	Silver	2.50	UN	1	0.81	2.50	5.00	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-23-5	Sodium	44800		1	434	500	1000	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-28-0	Thallium	10.0	U	1	2.19	10.0	20.0	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-62-2	Vanadium	10.0	U	1	3.13	10.0	20.0	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010
7440-66-6	Zinc	7.50	U	1	8.33	7.50	20.0	ug/L	05/12/25 10:15	05/15/25 15:40	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Cloudy	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

METAL CALIBRATION DATA

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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV08	Mercury	3.70	4.0	93	90 - 110	CV	05/14/2025	11:42	LB135763

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV22	Mercury	4.97	5.0	100	90 - 110	CV	05/14/2025	11:46	LB135763
CCV23	Mercury	5.44	5.0	109	90 - 110	CV	05/14/2025	12:24	LB135763
CCV24	Mercury	5.50	5.0	110	90 - 110	CV	05/14/2025	12:51	LB135763
CCV25	Mercury	4.82	5.0	96	90 - 110	CV	05/14/2025	13:28	LB135763
CCV26	Mercury	5.14	5.0	103	90 - 110	CV	05/14/2025	13:55	LB135763
CCV27	Mercury	4.71	5.0	94	90 - 110	CV	05/14/2025	14:23	LB135763
CCV28	Mercury	4.80	5.0	96	90 - 110	CV	05/14/2025	14:39	LB135763
CCV29	Mercury	5.15	5.0	103	90 - 110	CV	05/14/2025	14:57	LB135763

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2350	2500	94	90 - 110	P	05/14/2025	13:24	LB135778
	Antimony	990	1000	99	90 - 110	P	05/14/2025	13:24	LB135778
	Arsenic	984	1000	98	90 - 110	P	05/14/2025	13:24	LB135778
	Barium	487	520	94	90 - 110	P	05/14/2025	13:24	LB135778
	Beryllium	497	510	98	90 - 110	P	05/14/2025	13:24	LB135778
	Cadmium	489	510	96	90 - 110	P	05/14/2025	13:24	LB135778
	Calcium	9150	10000	92	90 - 110	P	05/14/2025	13:24	LB135778
	Chromium	508	520	98	90 - 110	P	05/14/2025	13:24	LB135778
	Cobalt	482	520	93	90 - 110	P	05/14/2025	13:24	LB135778
	Copper	504	510	99	90 - 110	P	05/14/2025	13:24	LB135778
	Iron	10300	10000	104	90 - 110	P	05/14/2025	13:24	LB135778
	Lead	962	1000	96	90 - 110	P	05/14/2025	13:24	LB135778
	Magnesium	5880	6000	98	90 - 110	P	05/14/2025	13:24	LB135778
	Manganese	471	520	91	90 - 110	P	05/14/2025	13:24	LB135778
	Nickel	484	530	91	90 - 110	P	05/14/2025	13:24	LB135778
	Potassium	10700	9900	108	90 - 110	P	05/14/2025	13:24	LB135778
	Selenium	1010	1000	101	90 - 110	P	05/14/2025	13:24	LB135778
	Silver	272	250	109	90 - 110	P	05/14/2025	13:24	LB135778
	Sodium	10500	10000	105	90 - 110	P	05/14/2025	13:24	LB135778
	Thallium	1010	1000	101	90 - 110	P	05/14/2025	13:24	LB135778
	Vanadium	460	500	92	90 - 110	P	05/14/2025	13:24	LB135778
	Zinc	1010	1000	101	90 - 110	P	05/14/2025	13:24	LB135778

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	100	100	100	80 - 120	P	05/14/2025	13:34	LB135778
	Antimony	52.2	50.0	104	80 - 120	P	05/14/2025	13:34	LB135778
	Arsenic	19.8	20.0	99	80 - 120	P	05/14/2025	13:34	LB135778
	Barium	92.3	100	92	80 - 120	P	05/14/2025	13:34	LB135778
	Beryllium	6.20	6.0	103	80 - 120	P	05/14/2025	13:34	LB135778
	Cadmium	6.13	6.0	102	80 - 120	P	05/14/2025	13:34	LB135778
	Calcium	2030	2000	102	80 - 120	P	05/14/2025	13:34	LB135778
	Chromium	9.42	10.0	94	80 - 120	P	05/14/2025	13:34	LB135778
	Cobalt	28.7	30.0	96	80 - 120	P	05/14/2025	13:34	LB135778
	Copper	22.6	20.0	113	80 - 120	P	05/14/2025	13:34	LB135778
	Iron	93.7	100	94	80 - 120	P	05/14/2025	13:34	LB135778
	Lead	12.3	12.0	103	80 - 120	P	05/14/2025	13:34	LB135778
	Magnesium	2080	2000	104	80 - 120	P	05/14/2025	13:34	LB135778
	Manganese	20.9	20.0	105	80 - 120	P	05/14/2025	13:34	LB135778
	Nickel	39.1	40.0	98	80 - 120	P	05/14/2025	13:34	LB135778
	Potassium	1890	2000	95	80 - 120	P	05/14/2025	13:34	LB135778
	Selenium	23.4	20.0	117	80 - 120	P	05/14/2025	13:34	LB135778
	Silver	9.52	10.0	95	80 - 120	P	05/14/2025	13:34	LB135778
	Sodium	1880	2000	94	80 - 120	P	05/14/2025	13:34	LB135778
	Thallium	39.9	40.0	100	80 - 120	P	05/14/2025	13:34	LB135778
	Vanadium	40.8	40.0	102	80 - 120	P	05/14/2025	13:34	LB135778
	Zinc	41.6	40.0	104	80 - 120	P	05/14/2025	13:34	LB135778

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9980	10000	100	90 - 110	P	05/14/2025	14:51	LB135778
	Antimony	4930	5000	99	90 - 110	P	05/14/2025	14:51	LB135778
	Arsenic	4860	5000	97	90 - 110	P	05/14/2025	14:51	LB135778
	Barium	9640	10000	96	90 - 110	P	05/14/2025	14:51	LB135778
	Beryllium	243	250	97	90 - 110	P	05/14/2025	14:51	LB135778
	Cadmium	2410	2500	96	90 - 110	P	05/14/2025	14:51	LB135778
	Calcium	24400	25000	98	90 - 110	P	05/14/2025	14:51	LB135778
	Chromium	979	1000	98	90 - 110	P	05/14/2025	14:51	LB135778
	Cobalt	2430	2500	97	90 - 110	P	05/14/2025	14:51	LB135778
	Copper	1230	1250	99	90 - 110	P	05/14/2025	14:51	LB135778
	Iron	4840	5000	97	90 - 110	P	05/14/2025	14:51	LB135778
	Lead	4840	5000	97	90 - 110	P	05/14/2025	14:51	LB135778
	Magnesium	24000	25000	96	90 - 110	P	05/14/2025	14:51	LB135778
	Manganese	2450	2500	98	90 - 110	P	05/14/2025	14:51	LB135778
	Nickel	2430	2500	97	90 - 110	P	05/14/2025	14:51	LB135778
	Potassium	24400	25000	97	90 - 110	P	05/14/2025	14:51	LB135778
	Selenium	4900	5000	98	90 - 110	P	05/14/2025	14:51	LB135778
	Silver	1220	1250	97	90 - 110	P	05/14/2025	14:51	LB135778
	Sodium	24800	25000	99	90 - 110	P	05/14/2025	14:51	LB135778
	Thallium	5040	5000	101	90 - 110	P	05/14/2025	14:51	LB135778
	Vanadium	2470	2500	99	90 - 110	P	05/14/2025	14:51	LB135778
	Zinc	2450	2500	98	90 - 110	P	05/14/2025	14:51	LB135778
CCV02	Aluminum	9710	10000	97	90 - 110	P	05/14/2025	15:53	LB135778
	Antimony	5020	5000	100	90 - 110	P	05/14/2025	15:53	LB135778
	Arsenic	4980	5000	100	90 - 110	P	05/14/2025	15:53	LB135778
	Barium	9410	10000	94	90 - 110	P	05/14/2025	15:53	LB135778
	Beryllium	229	250	92	90 - 110	P	05/14/2025	15:53	LB135778
	Cadmium	2430	2500	97	90 - 110	P	05/14/2025	15:53	LB135778
	Calcium	23700	25000	95	90 - 110	P	05/14/2025	15:53	LB135778
	Chromium	977	1000	98	90 - 110	P	05/14/2025	15:53	LB135778
	Cobalt	2440	2500	98	90 - 110	P	05/14/2025	15:53	LB135778
	Copper	1250	1250	100	90 - 110	P	05/14/2025	15:53	LB135778
	Iron	5010	5000	100	90 - 110	P	05/14/2025	15:53	LB135778
	Lead	4880	5000	98	90 - 110	P	05/14/2025	15:53	LB135778

Alliance TECHNICAL GROUP
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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	23200	25000	93	90 - 110	P	05/14/2025	15:53	LB135778
	Manganese	2360	2500	94	90 - 110	P	05/14/2025	15:53	LB135778
	Nickel	2440	2500	98	90 - 110	P	05/14/2025	15:53	LB135778
	Potassium	25300	25000	101	90 - 110	P	05/14/2025	15:53	LB135778
	Selenium	5010	5000	100	90 - 110	P	05/14/2025	15:53	LB135778
	Silver	1210	1250	97	90 - 110	P	05/14/2025	15:53	LB135778
	Sodium	26200	25000	105	90 - 110	P	05/14/2025	15:53	LB135778
	Thallium	5080	5000	102	90 - 110	P	05/14/2025	15:53	LB135778
	Vanadium	2410	2500	96	90 - 110	P	05/14/2025	15:53	LB135778
	Zinc	2450	2500	98	90 - 110	P	05/14/2025	15:53	LB135778
CCV03	Aluminum	9750	10000	98	90 - 110	P	05/14/2025	16:44	LB135778
	Antimony	4910	5000	98	90 - 110	P	05/14/2025	16:44	LB135778
	Arsenic	4820	5000	96	90 - 110	P	05/14/2025	16:44	LB135778
	Barium	9260	10000	93	90 - 110	P	05/14/2025	16:44	LB135778
	Beryllium	240	250	96	90 - 110	P	05/14/2025	16:44	LB135778
	Cadmium	2390	2500	96	90 - 110	P	05/14/2025	16:44	LB135778
	Calcium	23700	25000	95	90 - 110	P	05/14/2025	16:44	LB135778
	Chromium	988	1000	99	90 - 110	P	05/14/2025	16:44	LB135778
	Cobalt	2400	2500	96	90 - 110	P	05/14/2025	16:44	LB135778
	Copper	1220	1250	98	90 - 110	P	05/14/2025	16:44	LB135778
	Iron	4820	5000	96	90 - 110	P	05/14/2025	16:44	LB135778
	Lead	4800	5000	96	90 - 110	P	05/14/2025	16:44	LB135778
	Magnesium	23400	25000	94	90 - 110	P	05/14/2025	16:44	LB135778
	Manganese	2350	2500	94	90 - 110	P	05/14/2025	16:44	LB135778
	Nickel	2400	2500	96	90 - 110	P	05/14/2025	16:44	LB135778
	Potassium	24400	25000	98	90 - 110	P	05/14/2025	16:44	LB135778
	Selenium	4840	5000	97	90 - 110	P	05/14/2025	16:44	LB135778
	Silver	1210	1250	97	90 - 110	P	05/14/2025	16:44	LB135778
	Sodium	25200	25000	101	90 - 110	P	05/14/2025	16:44	LB135778
	Thallium	4970	5000	99	90 - 110	P	05/14/2025	16:44	LB135778
	Vanadium	2400	2500	96	90 - 110	P	05/14/2025	16:44	LB135778
	Zinc	2450	2500	98	90 - 110	P	05/14/2025	16:44	LB135778
CCV04	Aluminum	9660	10000	97	90 - 110	P	05/14/2025	18:08	LB135778
	Antimony	4880	5000	98	90 - 110	P	05/14/2025	18:08	LB135778

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4830	5000	97	90 - 110	P	05/14/2025	18:08	LB135778
	Barium	9330	10000	93	90 - 110	P	05/14/2025	18:08	LB135778
	Beryllium	231	250	92	90 - 110	P	05/14/2025	18:08	LB135778
	Cadmium	2420	2500	97	90 - 110	P	05/14/2025	18:08	LB135778
	Calcium	23800	25000	95	90 - 110	P	05/14/2025	18:08	LB135778
	Chromium	995	1000	100	90 - 110	P	05/14/2025	18:08	LB135778
	Cobalt	2420	2500	97	90 - 110	P	05/14/2025	18:08	LB135778
	Copper	1220	1250	98	90 - 110	P	05/14/2025	18:08	LB135778
	Iron	4990	5000	100	90 - 110	P	05/14/2025	18:08	LB135778
	Lead	4840	5000	97	90 - 110	P	05/14/2025	18:08	LB135778
	Magnesium	23400	25000	94	90 - 110	P	05/14/2025	18:08	LB135778
	Manganese	2370	2500	95	90 - 110	P	05/14/2025	18:08	LB135778
	Nickel	2430	2500	97	90 - 110	P	05/14/2025	18:08	LB135778
	Potassium	25000	25000	100	90 - 110	P	05/14/2025	18:08	LB135778
	Selenium	4860	5000	97	90 - 110	P	05/14/2025	18:08	LB135778
	Silver	1220	1250	98	90 - 110	P	05/14/2025	18:08	LB135778
	Sodium	25600	25000	102	90 - 110	P	05/14/2025	18:08	LB135778
	Thallium	4910	5000	98	90 - 110	P	05/14/2025	18:08	LB135778
	Vanadium	2400	2500	96	90 - 110	P	05/14/2025	18:08	LB135778
	Zinc	2460	2500	98	90 - 110	P	05/14/2025	18:08	LB135778
CCV05	Aluminum	9540	10000	95	90 - 110	P	05/14/2025	19:21	LB135778
	Antimony	4830	5000	97	90 - 110	P	05/14/2025	19:21	LB135778
	Arsenic	4790	5000	96	90 - 110	P	05/14/2025	19:21	LB135778
	Barium	9050	10000	90	90 - 110	P	05/14/2025	19:21	LB135778
	Beryllium	233	250	93	90 - 110	P	05/14/2025	19:21	LB135778
	Cadmium	2430	2500	97	90 - 110	P	05/14/2025	19:21	LB135778
	Calcium	23500	25000	94	90 - 110	P	05/14/2025	19:21	LB135778
	Chromium	992	1000	99	90 - 110	P	05/14/2025	19:21	LB135778
	Cobalt	2410	2500	97	90 - 110	P	05/14/2025	19:21	LB135778
	Copper	1200	1250	96	90 - 110	P	05/14/2025	19:21	LB135778
	Iron	4830	5000	97	90 - 110	P	05/14/2025	19:21	LB135778
	Lead	4830	5000	96	90 - 110	P	05/14/2025	19:21	LB135778
	Magnesium	23300	25000	93	90 - 110	P	05/14/2025	19:21	LB135778
	Manganese	2310	2500	92	90 - 110	P	05/14/2025	19:21	LB135778

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2440	2500	98	90 - 110	P	05/14/2025	19:21	LB135778
	Potassium	24200	25000	97	90 - 110	P	05/14/2025	19:21	LB135778
	Selenium	4850	5000	97	90 - 110	P	05/14/2025	19:21	LB135778
	Silver	1210	1250	97	90 - 110	P	05/14/2025	19:21	LB135778
	Sodium	25000	25000	100	90 - 110	P	05/14/2025	19:21	LB135778
	Thallium	4960	5000	99	90 - 110	P	05/14/2025	19:21	LB135778
	Vanadium	2380	2500	95	90 - 110	P	05/14/2025	19:21	LB135778
	Zinc	2420	2500	97	90 - 110	P	05/14/2025	19:21	LB135778

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2430	2500	97	90 - 110	P	05/15/2025	13:37	LB135794
	Antimony	991	1000	99	90 - 110	P	05/15/2025	13:37	LB135794
	Arsenic	997	1000	100	90 - 110	P	05/15/2025	13:37	LB135794
	Barium	515	520	99	90 - 110	P	05/15/2025	13:37	LB135794
	Beryllium	480	510	94	90 - 110	P	05/15/2025	13:37	LB135794
	Cadmium	500	510	98	90 - 110	P	05/15/2025	13:37	LB135794
	Calcium	9530	10000	95	90 - 110	P	05/15/2025	13:37	LB135794
	Chromium	506	520	97	90 - 110	P	05/15/2025	13:37	LB135794
	Cobalt	492	520	95	90 - 110	P	05/15/2025	13:37	LB135794
	Copper	508	510	100	90 - 110	P	05/15/2025	13:37	LB135794
	Iron	9530	10000	95	90 - 110	P	05/15/2025	13:37	LB135794
	Lead	989	1000	99	90 - 110	P	05/15/2025	13:37	LB135794
	Magnesium	5580	6000	93	90 - 110	P	05/15/2025	13:37	LB135794
	Manganese	492	520	94	90 - 110	P	05/15/2025	13:37	LB135794
	Nickel	494	530	93	90 - 110	P	05/15/2025	13:37	LB135794
	Potassium	9270	9900	94	90 - 110	P	05/15/2025	13:37	LB135794
	Selenium	1020	1000	102	90 - 110	P	05/15/2025	13:37	LB135794
	Silver	237	250	95	90 - 110	P	05/15/2025	13:37	LB135794
	Sodium	9880	10000	99	90 - 110	P	05/15/2025	13:37	LB135794
	Thallium	1030	1000	103	90 - 110	P	05/15/2025	13:37	LB135794
	Vanadium	474	500	95	90 - 110	P	05/15/2025	13:37	LB135794
	Zinc	1000	1000	100	90 - 110	P	05/15/2025	13:37	LB135794

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	104	100	104	80 - 120	P	05/15/2025	13:42	LB135794
	Antimony	53.7	50.0	107	80 - 120	P	05/15/2025	13:42	LB135794
	Arsenic	23.2	20.0	116	80 - 120	P	05/15/2025	13:42	LB135794
	Barium	95.7	100	96	80 - 120	P	05/15/2025	13:42	LB135794
	Beryllium	5.98	6.0	100	80 - 120	P	05/15/2025	13:42	LB135794
	Cadmium	6.08	6.0	101	80 - 120	P	05/15/2025	13:42	LB135794
	Calcium	2010	2000	100	80 - 120	P	05/15/2025	13:42	LB135794
	Chromium	9.66	10.0	97	80 - 120	P	05/15/2025	13:42	LB135794
	Cobalt	29.2	30.0	97	80 - 120	P	05/15/2025	13:42	LB135794
	Copper	22.6	20.0	113	80 - 120	P	05/15/2025	13:42	LB135794
	Iron	98.5	100	98	80 - 120	P	05/15/2025	13:42	LB135794
	Lead	12.2	12.0	102	80 - 120	P	05/15/2025	13:42	LB135794
	Magnesium	2070	2000	103	80 - 120	P	05/15/2025	13:42	LB135794
	Manganese	20.6	20.0	103	80 - 120	P	05/15/2025	13:42	LB135794
	Nickel	39.6	40.0	99	80 - 120	P	05/15/2025	13:42	LB135794
	Potassium	1960	2000	98	80 - 120	P	05/15/2025	13:42	LB135794
	Selenium	20.1	20.0	100	80 - 120	P	05/15/2025	13:42	LB135794
	Silver	10.2	10.0	102	80 - 120	P	05/15/2025	13:42	LB135794
	Sodium	1890	2000	94	80 - 120	P	05/15/2025	13:42	LB135794
	Thallium	42.6	40.0	106	80 - 120	P	05/15/2025	13:42	LB135794
	Vanadium	38.4	40.0	96	80 - 120	P	05/15/2025	13:42	LB135794
	Zinc	42.8	40.0	107	80 - 120	P	05/15/2025	13:42	LB135794

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9930	10000	99	90 - 110	P	05/15/2025	14:18	LB135794
	Antimony	4920	5000	98	90 - 110	P	05/15/2025	14:18	LB135794
	Arsenic	4990	5000	100	90 - 110	P	05/15/2025	14:18	LB135794
	Barium	9620	10000	96	90 - 110	P	05/15/2025	14:18	LB135794
	Beryllium	252	250	101	90 - 110	P	05/15/2025	14:18	LB135794
	Cadmium	2470	2500	99	90 - 110	P	05/15/2025	14:18	LB135794
	Calcium	24700	25000	99	90 - 110	P	05/15/2025	14:18	LB135794
	Chromium	1010	1000	101	90 - 110	P	05/15/2025	14:18	LB135794
	Cobalt	2490	2500	100	90 - 110	P	05/15/2025	14:18	LB135794
	Copper	1250	1250	100	90 - 110	P	05/15/2025	14:18	LB135794
	Iron	4870	5000	97	90 - 110	P	05/15/2025	14:18	LB135794
	Lead	4990	5000	100	90 - 110	P	05/15/2025	14:18	LB135794
	Magnesium	24100	25000	97	90 - 110	P	05/15/2025	14:18	LB135794
	Manganese	2450	2500	98	90 - 110	P	05/15/2025	14:18	LB135794
	Nickel	2470	2500	99	90 - 110	P	05/15/2025	14:18	LB135794
	Potassium	24200	25000	97	90 - 110	P	05/15/2025	14:18	LB135794
	Selenium	4940	5000	99	90 - 110	P	05/15/2025	14:18	LB135794
	Silver	1240	1250	100	90 - 110	P	05/15/2025	14:18	LB135794
	Sodium	24300	25000	97	90 - 110	P	05/15/2025	14:18	LB135794
	Thallium	4970	5000	99	90 - 110	P	05/15/2025	14:18	LB135794
	Vanadium	2430	2500	97	90 - 110	P	05/15/2025	14:18	LB135794
	Zinc	2530	2500	101	90 - 110	P	05/15/2025	14:18	LB135794
CCV02	Aluminum	9960	10000	100	90 - 110	P	05/15/2025	15:05	LB135794
	Antimony	4950	5000	99	90 - 110	P	05/15/2025	15:05	LB135794
	Arsenic	5050	5000	101	90 - 110	P	05/15/2025	15:05	LB135794
	Barium	9610	10000	96	90 - 110	P	05/15/2025	15:05	LB135794
	Beryllium	249	250	100	90 - 110	P	05/15/2025	15:05	LB135794
	Cadmium	2480	2500	99	90 - 110	P	05/15/2025	15:05	LB135794
	Calcium	24800	25000	99	90 - 110	P	05/15/2025	15:05	LB135794
	Chromium	1010	1000	101	90 - 110	P	05/15/2025	15:05	LB135794
	Cobalt	2510	2500	100	90 - 110	P	05/15/2025	15:05	LB135794
	Copper	1260	1250	101	90 - 110	P	05/15/2025	15:05	LB135794
	Iron	5010	5000	100	90 - 110	P	05/15/2025	15:05	LB135794
	Lead	5030	5000	100	90 - 110	P	05/15/2025	15:05	LB135794

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24200	25000	97	90 - 110	P	05/15/2025	15:05	LB135794
	Manganese	2450	2500	98	90 - 110	P	05/15/2025	15:05	LB135794
	Nickel	2480	2500	99	90 - 110	P	05/15/2025	15:05	LB135794
	Potassium	24700	25000	99	90 - 110	P	05/15/2025	15:05	LB135794
	Selenium	4980	5000	100	90 - 110	P	05/15/2025	15:05	LB135794
	Silver	1250	1250	100	90 - 110	P	05/15/2025	15:05	LB135794
	Sodium	25000	25000	100	90 - 110	P	05/15/2025	15:05	LB135794
	Thallium	4980	5000	100	90 - 110	P	05/15/2025	15:05	LB135794
	Vanadium	2450	2500	98	90 - 110	P	05/15/2025	15:05	LB135794
	Zinc	2530	2500	101	90 - 110	P	05/15/2025	15:05	LB135794
CCV03	Aluminum	9950	10000	100	90 - 110	P	05/15/2025	15:53	LB135794
	Antimony	4890	5000	98	90 - 110	P	05/15/2025	15:53	LB135794
	Arsenic	4930	5000	98	90 - 110	P	05/15/2025	15:53	LB135794
	Barium	9350	10000	94	90 - 110	P	05/15/2025	15:53	LB135794
	Beryllium	261	250	104	90 - 110	P	05/15/2025	15:53	LB135794
	Cadmium	2430	2500	97	90 - 110	P	05/15/2025	15:53	LB135794
	Calcium	24500	25000	98	90 - 110	P	05/15/2025	15:53	LB135794
	Chromium	995	1000	100	90 - 110	P	05/15/2025	15:53	LB135794
	Cobalt	2460	2500	98	90 - 110	P	05/15/2025	15:53	LB135794
	Copper	1240	1250	99	90 - 110	P	05/15/2025	15:53	LB135794
	Iron	4540	5000	91	90 - 110	P	05/15/2025	15:53	LB135794
	Lead	4930	5000	99	90 - 110	P	05/15/2025	15:53	LB135794
	Magnesium	24100	25000	96	90 - 110	P	05/15/2025	15:53	LB135794
	Manganese	2430	2500	97	90 - 110	P	05/15/2025	15:53	LB135794
	Nickel	2440	2500	98	90 - 110	P	05/15/2025	15:53	LB135794
	Potassium	22700	25000	91	90 - 110	P	05/15/2025	15:53	LB135794
	Selenium	4860	5000	97	90 - 110	P	05/15/2025	15:53	LB135794
	Silver	1220	1250	98	90 - 110	P	05/15/2025	15:53	LB135794
	Sodium	22900	25000	92	90 - 110	P	05/15/2025	15:53	LB135794
	Thallium	4910	5000	98	90 - 110	P	05/15/2025	15:53	LB135794
	Vanadium	2410	2500	96	90 - 110	P	05/15/2025	15:53	LB135794
	Zinc	2460	2500	98	90 - 110	P	05/15/2025	15:53	LB135794
CCV04	Aluminum	9920	10000	99	90 - 110	P	05/15/2025	16:39	LB135794
	Antimony	4830	5000	96	90 - 110	P	05/15/2025	16:39	LB135794

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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4930	5000	99	90 - 110	P	05/15/2025	16:39	LB135794
	Barium	9520	10000	95	90 - 110	P	05/15/2025	16:39	LB135794
	Beryllium	251	250	100	90 - 110	P	05/15/2025	16:39	LB135794
	Cadmium	2450	2500	98	90 - 110	P	05/15/2025	16:39	LB135794
	Calcium	24500	25000	98	90 - 110	P	05/15/2025	16:39	LB135794
	Chromium	998	1000	100	90 - 110	P	05/15/2025	16:39	LB135794
	Cobalt	2480	2500	99	90 - 110	P	05/15/2025	16:39	LB135794
	Copper	1240	1250	99	90 - 110	P	05/15/2025	16:39	LB135794
	Iron	4680	5000	94	90 - 110	P	05/15/2025	16:39	LB135794
	Lead	4960	5000	99	90 - 110	P	05/15/2025	16:39	LB135794
	Magnesium	23800	25000	95	90 - 110	P	05/15/2025	16:39	LB135794
	Manganese	2420	2500	97	90 - 110	P	05/15/2025	16:39	LB135794
	Nickel	2440	2500	98	90 - 110	P	05/15/2025	16:39	LB135794
	Potassium	23300	25000	93	90 - 110	P	05/15/2025	16:39	LB135794
	Selenium	4830	5000	97	90 - 110	P	05/15/2025	16:39	LB135794
	Silver	1220	1250	98	90 - 110	P	05/15/2025	16:39	LB135794
	Sodium	23400	25000	94	90 - 110	P	05/15/2025	16:39	LB135794
	Thallium	4890	5000	98	90 - 110	P	05/15/2025	16:39	LB135794
	Vanadium	2420	2500	97	90 - 110	P	05/15/2025	16:39	LB135794
	Zinc	2440	2500	97	90 - 110	P	05/15/2025	16:39	LB135794
CCV05	Aluminum	10100	10000	101	90 - 110	P	05/15/2025	17:27	LB135794
	Antimony	4810	5000	96	90 - 110	P	05/15/2025	17:27	LB135794
	Arsenic	4940	5000	99	90 - 110	P	05/15/2025	17:27	LB135794
	Barium	9330	10000	93	90 - 110	P	05/15/2025	17:27	LB135794
	Beryllium	266	250	106	90 - 110	P	05/15/2025	17:27	LB135794
	Cadmium	2470	2500	99	90 - 110	P	05/15/2025	17:27	LB135794
	Calcium	25300	25000	101	90 - 110	P	05/15/2025	17:27	LB135794
	Chromium	1030	1000	103	90 - 110	P	05/15/2025	17:27	LB135794
	Cobalt	2500	2500	100	90 - 110	P	05/15/2025	17:27	LB135794
	Copper	1240	1250	99	90 - 110	P	05/15/2025	17:27	LB135794
	Iron	4850	5000	97	90 - 110	P	05/15/2025	17:27	LB135794
	Lead	5580	5000	112	90 - 110	P	05/15/2025	17:27	LB135794
	Magnesium	24900	25000	100	90 - 110	P	05/15/2025	17:27	LB135794
	Manganese	2450	2500	98	90 - 110	P	05/15/2025	17:27	LB135794

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2600	2500	104	90 - 110	P	05/15/2025	17:27	LB135794
	Potassium	23300	25000	93	90 - 110	P	05/15/2025	17:27	LB135794
	Selenium	4820	5000	96	90 - 110	P	05/15/2025	17:27	LB135794
	Silver	1260	1250	101	90 - 110	P	05/15/2025	17:27	LB135794
	Sodium	23600	25000	94	90 - 110	P	05/15/2025	17:27	LB135794
	Thallium	4880	5000	98	90 - 110	P	05/15/2025	17:27	LB135794
	Vanadium	2440	2500	98	90 - 110	P	05/15/2025	17:27	LB135794
	Zinc	7780	2500	311	90 - 110	P	05/15/2025	17:27	LB135794
CCV06	Aluminum	9950	10000	100	90 - 110	P	05/15/2025	17:41	LB135794
	Antimony	4800	5000	96	90 - 110	P	05/15/2025	17:41	LB135794
	Arsenic	4900	5000	98	90 - 110	P	05/15/2025	17:41	LB135794
	Barium	9440	10000	94	90 - 110	P	05/15/2025	17:41	LB135794
	Beryllium	263	250	105	90 - 110	P	05/15/2025	17:41	LB135794
	Cadmium	2470	2500	99	90 - 110	P	05/15/2025	17:41	LB135794
	Calcium	25200	25000	101	90 - 110	P	05/15/2025	17:41	LB135794
	Chromium	1020	1000	102	90 - 110	P	05/15/2025	17:41	LB135794
	Cobalt	2490	2500	100	90 - 110	P	05/15/2025	17:41	LB135794
	Copper	1230	1250	98	90 - 110	P	05/15/2025	17:41	LB135794
	Iron	4860	5000	97	90 - 110	P	05/15/2025	17:41	LB135794
	Lead	5000	5000	100	90 - 110	P	05/15/2025	17:41	LB135794
	Magnesium	24600	25000	99	90 - 110	P	05/15/2025	17:41	LB135794
	Manganese	2450	2500	98	90 - 110	P	05/15/2025	17:41	LB135794
	Nickel	2460	2500	98	90 - 110	P	05/15/2025	17:41	LB135794
	Potassium	23500	25000	94	90 - 110	P	05/15/2025	17:41	LB135794
	Selenium	4790	5000	96	90 - 110	P	05/15/2025	17:41	LB135794
	Silver	1250	1250	100	90 - 110	P	05/15/2025	17:41	LB135794
	Sodium	23600	25000	95	90 - 110	P	05/15/2025	17:41	LB135794
	Thallium	4950	5000	99	90 - 110	P	05/15/2025	17:41	LB135794
	Vanadium	2450	2500	98	90 - 110	P	05/15/2025	17:41	LB135794
	Zinc	2500	2500	100	90 - 110	P	05/15/2025	17:41	LB135794
CCV07	Aluminum	9840	10000	98	90 - 110	P	05/15/2025	18:47	LB135794
	Antimony	4680	5000	94	90 - 110	P	05/15/2025	18:47	LB135794
	Arsenic	4790	5000	96	90 - 110	P	05/15/2025	18:47	LB135794
	Barium	9280	10000	93	90 - 110	P	05/15/2025	18:47	LB135794

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	262	250	105	90 - 110	P	05/15/2025	18:47	LB135794
	Cadmium	2440	2500	98	90 - 110	P	05/15/2025	18:47	LB135794
	Calcium	25000	25000	100	90 - 110	P	05/15/2025	18:47	LB135794
	Chromium	1030	1000	103	90 - 110	P	05/15/2025	18:47	LB135794
	Cobalt	2460	2500	99	90 - 110	P	05/15/2025	18:47	LB135794
	Copper	1210	1250	97	90 - 110	P	05/15/2025	18:47	LB135794
	Iron	4790	5000	96	90 - 110	P	05/15/2025	18:47	LB135794
	Lead	4940	5000	99	90 - 110	P	05/15/2025	18:47	LB135794
	Magnesium	24600	25000	98	90 - 110	P	05/15/2025	18:47	LB135794
	Manganese	2450	2500	98	90 - 110	P	05/15/2025	18:47	LB135794
	Nickel	2430	2500	97	90 - 110	P	05/15/2025	18:47	LB135794
	Potassium	23200	25000	93	90 - 110	P	05/15/2025	18:47	LB135794
	Selenium	4640	5000	93	90 - 110	P	05/15/2025	18:47	LB135794
	Silver	1230	1250	99	90 - 110	P	05/15/2025	18:47	LB135794
	Sodium	23200	25000	93	90 - 110	P	05/15/2025	18:47	LB135794
	Thallium	4850	5000	97	90 - 110	P	05/15/2025	18:47	LB135794
	Vanadium	2430	2500	97	90 - 110	P	05/15/2025	18:47	LB135794
	Zinc	2480	2500	99	90 - 110	P	05/15/2025	18:47	LB135794

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.18	0.2	89	70 - 130	CV	05/14/2025	11:54	LB135763
CRI01	Aluminum	91.1	100	91	65 - 135	P	05/14/2025	13:43	LB135778
	Antimony	50.6	50.0	101	65 - 135	P	05/14/2025	13:43	LB135778
	Arsenic	19.9	20.0	99	65 - 135	P	05/14/2025	13:43	LB135778
	Barium	85.9	100	86	65 - 135	P	05/14/2025	13:43	LB135778
	Beryllium	5.80	6.0	97	65 - 135	P	05/14/2025	13:43	LB135778
	Cadmium	6.01	6.0	100	65 - 135	P	05/14/2025	13:43	LB135778
	Calcium	1910	2000	95	65 - 135	P	05/14/2025	13:43	LB135778
	Chromium	9.05	10.0	90	65 - 135	P	05/14/2025	13:43	LB135778
	Cobalt	29.0	30.0	97	65 - 135	P	05/14/2025	13:43	LB135778
	Copper	22.3	20.0	112	65 - 135	P	05/14/2025	13:43	LB135778
	Iron	93.3	100	93	65 - 135	P	05/14/2025	13:43	LB135778
	Lead	11.1	12.0	92	65 - 135	P	05/14/2025	13:43	LB135778
	Magnesium	1970	2000	98	65 - 135	P	05/14/2025	13:43	LB135778
	Manganese	19.4	20.0	97	65 - 135	P	05/14/2025	13:43	LB135778
	Nickel	38.8	40.0	97	65 - 135	P	05/14/2025	13:43	LB135778
	Potassium	1920	2000	96	65 - 135	P	05/14/2025	13:43	LB135778
	Selenium	22.6	20.0	113	65 - 135	P	05/14/2025	13:43	LB135778
	Silver	9.49	10.0	95	65 - 135	P	05/14/2025	13:43	LB135778
	Sodium	1890	2000	94	65 - 135	P	05/14/2025	13:43	LB135778
	Thallium	39.1	40.0	98	65 - 135	P	05/14/2025	13:43	LB135778
	Vanadium	38.4	40.0	96	65 - 135	P	05/14/2025	13:43	LB135778
	Zinc	42.2	40.0	106	65 - 135	P	05/14/2025	13:43	LB135778
CRI01	Aluminum	102	100	102	65 - 135	P	05/15/2025	13:51	LB135794
	Antimony	52.8	50.0	106	65 - 135	P	05/15/2025	13:51	LB135794
	Arsenic	21.4	20.0	107	65 - 135	P	05/15/2025	13:51	LB135794
	Barium	94.3	100	94	65 - 135	P	05/15/2025	13:51	LB135794
	Beryllium	5.81	6.0	97	65 - 135	P	05/15/2025	13:51	LB135794
	Cadmium	6.05	6.0	101	65 - 135	P	05/15/2025	13:51	LB135794
	Calcium	2010	2000	100	65 - 135	P	05/15/2025	13:51	LB135794
	Chromium	9.78	10.0	98	65 - 135	P	05/15/2025	13:51	LB135794
	Cobalt	29.2	30.0	97	65 - 135	P	05/15/2025	13:51	LB135794
	Copper	22.2	20.0	111	65 - 135	P	05/15/2025	13:51	LB135794
	Iron	104	100	104	65 - 135	P	05/15/2025	13:51	LB135794
	Lead	12.3	12.0	102	65 - 135	P	05/15/2025	13:51	LB135794

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Magnesium	2060	2000	103	65 - 135	P	05/15/2025	13:51	LB135794
	Manganese	20.4	20.0	102	65 - 135	P	05/15/2025	13:51	LB135794
	Nickel	39.1	40.0	98	65 - 135	P	05/15/2025	13:51	LB135794
	Potassium	1920	2000	96	65 - 135	P	05/15/2025	13:51	LB135794
	Selenium	22.4	20.0	112	65 - 135	P	05/15/2025	13:51	LB135794
	Silver	10.1	10.0	101	65 - 135	P	05/15/2025	13:51	LB135794
	Sodium	1880	2000	94	65 - 135	P	05/15/2025	13:51	LB135794
	Thallium	42.5	40.0	106	65 - 135	P	05/15/2025	13:51	LB135794
	Vanadium	38.1	40.0	95	65 - 135	P	05/15/2025	13:51	LB135794
	Zinc	42.5	40.0	106	65 - 135	P	05/15/2025	13:51	LB135794

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB08	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	11:44	LB135763

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB22	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	11:51	LB135763
CCB23	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	12:26	LB135763
CCB24	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	12:54	LB135763
CCB25	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	13:30	LB135763
CCB26	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	13:57	LB135763
CCB27	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	14:25	LB135763
CCB28	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	14:41	LB135763
CCB29	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	14:59	LB135763

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	80.0	100	P	05/14/2025	13:38	LB135778
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/14/2025	13:38	LB135778
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	13:38	LB135778
	Barium	100	+/-100	U	25.0	100	P	05/14/2025	13:38	LB135778
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	13:38	LB135778
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	13:38	LB135778
	Calcium	2000	+/-2000	U	500	2000	P	05/14/2025	13:38	LB135778
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	13:38	LB135778
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/14/2025	13:38	LB135778
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	13:38	LB135778
	Iron	100	+/-100	U	80.0	100	P	05/14/2025	13:38	LB135778
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/14/2025	13:38	LB135778
	Magnesium	2000	+/-2000	U	500	2000	P	05/14/2025	13:38	LB135778
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	13:38	LB135778
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/14/2025	13:38	LB135778
	Potassium	2000	+/-2000	U	1600	2000	P	05/14/2025	13:38	LB135778
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	13:38	LB135778
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	13:38	LB135778
	Sodium	2000	+/-2000	U	1000	2000	P	05/14/2025	13:38	LB135778
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	13:38	LB135778
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	13:38	LB135778
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/14/2025	13:38	LB135778

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	80.0	100	P	05/14/2025	14:56	LB135778
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/14/2025	14:56	LB135778
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	14:56	LB135778
	Barium	100	+/-100	U	25.0	100	P	05/14/2025	14:56	LB135778
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	14:56	LB135778
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	14:56	LB135778
	Calcium	2000	+/-2000	U	500	2000	P	05/14/2025	14:56	LB135778
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	14:56	LB135778
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/14/2025	14:56	LB135778
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	14:56	LB135778
	Iron	100	+/-100	U	80.0	100	P	05/14/2025	14:56	LB135778
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/14/2025	14:56	LB135778
	Magnesium	2000	+/-2000	U	500	2000	P	05/14/2025	14:56	LB135778
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	14:56	LB135778
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/14/2025	14:56	LB135778
	Potassium	2000	+/-2000	U	1600	2000	P	05/14/2025	14:56	LB135778
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	14:56	LB135778
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	14:56	LB135778
	Sodium	2000	+/-2000	U	1000	2000	P	05/14/2025	14:56	LB135778
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	14:56	LB135778
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	14:56	LB135778
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/14/2025	14:56	LB135778
CCB02	Aluminum	100	+/-100	U	80.0	100	P	05/14/2025	15:57	LB135778
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/14/2025	15:57	LB135778
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	15:57	LB135778
	Barium	100	+/-100	U	25.0	100	P	05/14/2025	15:57	LB135778
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	15:57	LB135778
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	15:57	LB135778
	Calcium	2000	+/-2000	U	500	2000	P	05/14/2025	15:57	LB135778
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	15:57	LB135778
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/14/2025	15:57	LB135778
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	15:57	LB135778
	Iron	100	+/-100	U	80.0	100	P	05/14/2025	15:57	LB135778
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/14/2025	15:57	LB135778
	Magnesium	2000	+/-2000	U	500	2000	P	05/14/2025	15:57	LB135778
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	15:57	LB135778
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/14/2025	15:57	LB135778
	Potassium	2000	+/-2000	U	1600	2000	P	05/14/2025	15:57	LB135778
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	15:57	LB135778

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	15:57	LB135778
	Sodium	2000	+/-2000	U	1000	2000	P	05/14/2025	15:57	LB135778
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	15:57	LB135778
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	15:57	LB135778
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/14/2025	15:57	LB135778
CCB03	Aluminum	15.4	+/-100	J	80.0	100	P	05/14/2025	16:48	LB135778
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/14/2025	16:48	LB135778
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	16:48	LB135778
	Barium	100	+/-100	U	25.0	100	P	05/14/2025	16:48	LB135778
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	16:48	LB135778
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	16:48	LB135778
	Calcium	2000	+/-2000	U	500	2000	P	05/14/2025	16:48	LB135778
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	16:48	LB135778
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/14/2025	16:48	LB135778
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	16:48	LB135778
	Iron	100	+/-100	U	80.0	100	P	05/14/2025	16:48	LB135778
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/14/2025	16:48	LB135778
	Magnesium	2000	+/-2000	U	500	2000	P	05/14/2025	16:48	LB135778
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	16:48	LB135778
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/14/2025	16:48	LB135778
	Potassium	2000	+/-2000	U	1600	2000	P	05/14/2025	16:48	LB135778
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	16:48	LB135778
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	16:48	LB135778
	Sodium	2000	+/-2000	U	1000	2000	P	05/14/2025	16:48	LB135778
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	16:48	LB135778
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	16:48	LB135778
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/14/2025	16:48	LB135778
CCB04	Aluminum	100	+/-100	U	80.0	100	P	05/14/2025	18:12	LB135778
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/14/2025	18:12	LB135778
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	18:12	LB135778
	Barium	100	+/-100	U	25.0	100	P	05/14/2025	18:12	LB135778
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	18:12	LB135778
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	18:12	LB135778
	Calcium	2000	+/-2000	U	500	2000	P	05/14/2025	18:12	LB135778
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	18:12	LB135778
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/14/2025	18:12	LB135778
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	18:12	LB135778
	Iron	100	+/-100	U	80.0	100	P	05/14/2025	18:12	LB135778
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/14/2025	18:12	LB135778

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	500	2000	P	05/14/2025	18:12	LB135778
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	18:12	LB135778
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/14/2025	18:12	LB135778
	Potassium	2000	+/-2000	U	1600	2000	P	05/14/2025	18:12	LB135778
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	18:12	LB135778
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	18:12	LB135778
	Sodium	2000	+/-2000	U	1000	2000	P	05/14/2025	18:12	LB135778
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	18:12	LB135778
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	18:12	LB135778
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/14/2025	18:12	LB135778
CCB05	Aluminum	100	+/-100	U	80.0	100	P	05/14/2025	19:25	LB135778
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/14/2025	19:25	LB135778
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	19:25	LB135778
	Barium	100	+/-100	U	25.0	100	P	05/14/2025	19:25	LB135778
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	19:25	LB135778
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	19:25	LB135778
	Calcium	2000	+/-2000	U	500	2000	P	05/14/2025	19:25	LB135778
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	19:25	LB135778
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/14/2025	19:25	LB135778
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	19:25	LB135778
	Iron	100	+/-100	U	80.0	100	P	05/14/2025	19:25	LB135778
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/14/2025	19:25	LB135778
	Magnesium	2000	+/-2000	U	500	2000	P	05/14/2025	19:25	LB135778
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	19:25	LB135778
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/14/2025	19:25	LB135778
	Potassium	2000	+/-2000	U	1600	2000	P	05/14/2025	19:25	LB135778
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	19:25	LB135778
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	19:25	LB135778
	Sodium	2000	+/-2000	U	1000	2000	P	05/14/2025	19:25	LB135778
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	19:25	LB135778
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	19:25	LB135778
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/14/2025	19:25	LB135778

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	80.0	100	P	05/15/2025	13:47	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	13:47	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	13:47	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	13:47	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	13:47	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	13:47	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	13:47	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	13:47	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	13:47	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	13:47	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	13:47	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	13:47	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	13:47	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	13:47	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	13:47	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	13:47	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	13:47	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	13:47	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	13:47	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	13:47	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	13:47	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	13:47	LB135794

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	80.0	100	P	05/15/2025	14:22	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	14:22	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	14:22	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	14:22	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	14:22	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	14:22	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	14:22	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	14:22	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	14:22	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	14:22	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	14:22	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	14:22	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	14:22	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	14:22	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	14:22	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	14:22	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	14:22	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	14:22	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	14:22	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	14:22	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	14:22	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	14:22	LB135794
CCB02	Aluminum	13.0	+/-100	J	80.0	100	P	05/15/2025	15:09	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	15:09	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	15:09	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	15:09	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	15:09	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	15:09	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	15:09	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	15:09	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	15:09	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	15:09	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	15:09	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	15:09	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	15:09	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	15:09	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	15:09	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	15:09	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	15:09	LB135794

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	15:09	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	15:09	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	15:09	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	15:09	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	15:09	LB135794
CCB03	Aluminum	22.1	+/-100	J	80.0	100	P	05/15/2025	15:57	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	15:57	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	15:57	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	15:57	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	15:57	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	15:57	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	15:57	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	15:57	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	15:57	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	15:57	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	15:57	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	15:57	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	15:57	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	15:57	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	15:57	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	15:57	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	15:57	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	15:57	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	15:57	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	15:57	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	15:57	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	15:57	LB135794
CCB04	Aluminum	100	+/-100	U	80.0	100	P	05/15/2025	16:44	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	16:44	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	16:44	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	16:44	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	16:44	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	16:44	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	16:44	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	16:44	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	16:44	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	16:44	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	16:44	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	16:44	LB135794

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	16:44	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	16:44	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	16:44	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	16:44	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	16:44	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	16:44	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	16:44	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	16:44	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	16:44	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	16:44	LB135794
CCB05	Aluminum	100	+/-100	U	80.0	100	P	05/15/2025	17:31	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	17:31	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	17:31	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	17:31	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	17:31	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	17:31	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	17:31	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	17:31	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	17:31	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	17:31	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	17:31	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	17:31	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	17:31	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	17:31	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	17:31	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	17:31	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	17:31	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	17:31	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	17:31	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	17:31	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	17:31	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	17:31	LB135794
CCB06	Aluminum	100	+/-100	U	80.0	100	P	05/15/2025	17:56	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	17:56	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	17:56	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	17:56	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	17:56	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	17:56	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	17:56	LB135794

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	17:56	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	17:56	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	17:56	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	17:56	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	17:56	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	17:56	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	17:56	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	17:56	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	17:56	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	17:56	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	17:56	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	17:56	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	17:56	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	17:56	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	17:56	LB135794
CCB07	Aluminum	100	+/-100	U	80.0	100	P	05/15/2025	18:52	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	18:52	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	18:52	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	18:52	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	18:52	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	18:52	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	18:52	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	18:52	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	18:52	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	18:52	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	18:52	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	18:52	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	18:52	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	18:52	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	18:52	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	18:52	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	18:52	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	18:52	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	18:52	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	18:52	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	18:52	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	18:52	LB135794

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Metals
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PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167980BL		**WATER**		**Batch Number:**		**PB167980**		**Prep Date:**	**05/13/2025**	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	05/14/2025	13:53	LB135763

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Metals
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PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167955BL		**WATER**		**Batch Number:**		**PB167955**		**Prep Date:**	**05/12/2025**	
	Aluminum	50.0	<50.0	U	40.0	50.0	P	05/14/2025	18:25	LB135778
	Antimony	25.0	<25.0	U	6.25	25.0	P	05/14/2025	18:25	LB135778
	Arsenic	10.0	<10.0	U	7.50	10.0	P	05/14/2025	18:25	LB135778
	Barium	50.0	<50.0	U	12.5	50.0	P	05/14/2025	18:25	LB135778
	Beryllium	3.00	<3.00	U	0.75	3.00	P	05/14/2025	18:25	LB135778
	Cadmium	3.00	<3.00	U	0.75	3.00	P	05/14/2025	18:25	LB135778
	Calcium	1000	<1000	U	250	1000	P	05/14/2025	18:25	LB135778
	Chromium	5.00	<5.00	U	2.50	5.00	P	05/14/2025	18:25	LB135778
	Cobalt	15.0	<15.0	U	3.75	15.0	P	05/14/2025	18:25	LB135778
	Copper	10.0	<10.0	U	8.00	10.0	P	05/14/2025	18:25	LB135778
	Iron	50.0	<50.0	U	40.0	50.0	P	05/14/2025	18:25	LB135778
	Lead	6.00	<6.00	U	4.80	6.00	P	05/14/2025	18:25	LB135778
	Magnesium	1000	<1000	U	250	1000	P	05/14/2025	18:25	LB135778
	Manganese	10.0	<10.0	U	7.50	10.0	P	05/14/2025	18:25	LB135778
	Nickel	20.0	<20.0	U	5.00	20.0	P	05/14/2025	18:25	LB135778
	Potassium	1000	<1000	U	800	1000	P	05/14/2025	18:25	LB135778
	Selenium	10.0	<10.0	U	8.00	10.0	P	05/14/2025	18:25	LB135778
	Silver	5.00	<5.00	U	2.50	5.00	P	05/14/2025	18:25	LB135778
	Sodium	1000	<1000	U	500	1000	P	05/14/2025	18:25	LB135778
	Thallium	20.0	<20.0	U	10.0	20.0	P	05/14/2025	18:25	LB135778
	Vanadium	20.0	<20.0	U	10.0	20.0	P	05/14/2025	18:25	LB135778
	Zinc	20.0	<20.0	U	7.50	20.0	P	05/14/2025	18:25	LB135778

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	234000	255000	92	216000	294000	05/14/2025	14:09	LB135778
	Antimony	-3.07			-50	50	05/14/2025	14:09	LB135778
	Arsenic	4.85			-20	20	05/14/2025	14:09	LB135778
	Barium	1.76	6.0	29	-94	106	05/14/2025	14:09	LB135778
	Beryllium	1.12			-6	6	05/14/2025	14:09	LB135778
	Cadmium	-3.09	1.0	309	-5	7	05/14/2025	14:09	LB135778
	Calcium	218000	245000	89	208000	282000	05/14/2025	14:09	LB135778
	Chromium	52.2	52.0	100	42	62	05/14/2025	14:09	LB135778
	Cobalt	0.31			-30	30	05/14/2025	14:09	LB135778
	Copper	0.58	2.0	29	-18	22	05/14/2025	14:09	LB135778
	Iron	93300	101000	92	85600	116500	05/14/2025	14:09	LB135778
	Lead	0.26			-12	12	05/14/2025	14:09	LB135778
	Magnesium	228000	255000	89	216000	294000	05/14/2025	14:09	LB135778
	Manganese	3.08	7.0	44	-13	27	05/14/2025	14:09	LB135778
	Nickel	1.20	2.0	60	-38	42	05/14/2025	14:09	LB135778
	Potassium	22.4			0	0	05/14/2025	14:09	LB135778
	Selenium	-3.16			-20	20	05/14/2025	14:09	LB135778
	Silver	0.95			-10	10	05/14/2025	14:09	LB135778
	Sodium	71.8			0	0	05/14/2025	14:09	LB135778
	Thallium	6.83			-40	40	05/14/2025	14:09	LB135778
	Vanadium	0.97			-40	40	05/14/2025	14:09	LB135778
	Zinc	3.75			-40	40	05/14/2025	14:09	LB135778
ICSAB01	Aluminum	236000	247000	96	209000	285000	05/14/2025	14:16	LB135778
	Antimony	592	618	96	525	711	05/14/2025	14:16	LB135778
	Arsenic	108	104	104	88.4	120	05/14/2025	14:16	LB135778
	Barium	442	537	82	437	637	05/14/2025	14:16	LB135778
	Beryllium	446	495	90	420	570	05/14/2025	14:16	LB135778
	Cadmium	933	972	96	826	1120	05/14/2025	14:16	LB135778
	Calcium	219000	235000	93	199000	271000	05/14/2025	14:16	LB135778
	Chromium	525	542	97	460	624	05/14/2025	14:16	LB135778
	Cobalt	463	476	97	404	548	05/14/2025	14:16	LB135778
	Copper	468	511	92	434	588	05/14/2025	14:16	LB135778
	Iron	94500	99300	95	84400	114500	05/14/2025	14:16	LB135778
	Lead	46.1	49.0	94	37	61	05/14/2025	14:16	LB135778
	Magnesium	230000	248000	93	210000	286000	05/14/2025	14:16	LB135778
	Manganese	446	507	88	430	584	05/14/2025	14:16	LB135778
	Nickel	916	954	96	810	1100	05/14/2025	14:16	LB135778
	Potassium	-47.9			0	0	05/14/2025	14:16	LB135778
	Selenium	40.7	46.0	88	26	66	05/14/2025	14:16	LB135778
	Silver	203	201	101	170	232	05/14/2025	14:16	LB135778
	Sodium	-147			0	0	05/14/2025	14:16	LB135778
	Thallium	104	108	96	68	148	05/14/2025	14:16	LB135778

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	445	491	91	417	565	05/14/2025	14:16	LB135778
	Zinc	981	952	103	809	1095	05/14/2025	14:16	LB135778
ICSA01	Aluminum	232000	255000	91	216000	294000	05/15/2025	14:01	LB135794
	Antimony	-2.73			-50	50	05/15/2025	14:01	LB135794
	Arsenic	5.60			-20	20	05/15/2025	14:01	LB135794
	Barium	2.71	6.0	45	-94	106	05/15/2025	14:01	LB135794
	Beryllium	1.30			-6	6	05/15/2025	14:01	LB135794
	Cadmium	-3.02	1.0	302	-5	7	05/15/2025	14:01	LB135794
	Calcium	220000	245000	90	208000	282000	05/15/2025	14:01	LB135794
	Chromium	52.3	52.0	101	42	62	05/15/2025	14:01	LB135794
	Cobalt	1.23			-30	30	05/15/2025	14:01	LB135794
	Copper	-2.10	2.0	105	-18	22	05/15/2025	14:01	LB135794
	Iron	93300	101000	92	85600	116500	05/15/2025	14:01	LB135794
	Lead	1.30			-12	12	05/15/2025	14:01	LB135794
	Magnesium	231000	255000	91	216000	294000	05/15/2025	14:01	LB135794
	Manganese	7.39	7.0	106	-13	27	05/15/2025	14:01	LB135794
	Nickel	1.31	2.0	66	-38	42	05/15/2025	14:01	LB135794
	Potassium	3.65			0	0	05/15/2025	14:01	LB135794
	Selenium	-5.78			-20	20	05/15/2025	14:01	LB135794
	Silver	-0.091			-10	10	05/15/2025	14:01	LB135794
	Sodium	-5.99			0	0	05/15/2025	14:01	LB135794
	Thallium	6.40			-40	40	05/15/2025	14:01	LB135794
	Vanadium	1.49			-40	40	05/15/2025	14:01	LB135794
	Zinc	3.33			-40	40	05/15/2025	14:01	LB135794
ICSAB01	Aluminum	231000	247000	94	209000	285000	05/15/2025	14:05	LB135794
	Antimony	574	618	93	525	711	05/15/2025	14:05	LB135794
	Arsenic	107	104	103	88.4	120	05/15/2025	14:05	LB135794
	Barium	449	537	84	437	637	05/15/2025	14:05	LB135794
	Beryllium	448	495	90	420	570	05/15/2025	14:05	LB135794
	Cadmium	951	972	98	826	1120	05/15/2025	14:05	LB135794
	Calcium	220000	235000	94	199000	271000	05/15/2025	14:05	LB135794
	Chromium	525	542	97	460	624	05/15/2025	14:05	LB135794
	Cobalt	470	476	99	404	548	05/15/2025	14:05	LB135794
	Copper	453	511	89	434	588	05/15/2025	14:05	LB135794
	Iron	93800	99300	94	84400	114500	05/15/2025	14:05	LB135794
	Lead	45.4	49.0	93	37	61	05/15/2025	14:05	LB135794
	Magnesium	231000	248000	93	210000	286000	05/15/2025	14:05	LB135794
	Manganese	454	507	90	430	584	05/15/2025	14:05	LB135794
	Nickel	924	954	97	810	1100	05/15/2025	14:05	LB135794
	Potassium	-15.5			0	0	05/15/2025	14:05	LB135794
	Selenium	37.6	46.0	82	26	66	05/15/2025	14:05	LB135794
	Silver	214	201	106	170	232	05/15/2025	14:05	LB135794

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	-57.9			0	0	05/15/2025	14:05	LB135794
	Thallium	104	108	96	68	148	05/15/2025	14:05	LB135794
	Vanadium	442	491	90	417	565	05/15/2025	14:05	LB135794
	Zinc	965	952	101	809	1095	05/15/2025	14:05	LB135794

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q1985

contract: TETR06 **lab code:** CHEM **case no.:** Q1985 **sas no.:** Q1985

matrix: Water **sample id:** Q1985-01 **client id:** RW8-BW-20250507MS

Percent Solids for Sample: NA **Spiked ID:** Q1985-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	86 - 115	967		24.0	J	1000	94		P
Antimony	ug/L	88 - 113	384		25.0	U	400	96		P
Arsenic	ug/L	87 - 113	394		10.0	U	400	98		P
Barium	ug/L	88 - 113	95.0		50.0	U	100	95		P
Beryllium	ug/L	89 - 112	90.9		3.00	U	100	91		P
Cadmium	ug/L	88 - 113	99.0		3.00	U	100	99		P
Calcium	ug/L	87 - 113	1880		1380		500	100		P
Chromium	ug/L	90 - 113	199		2.48	J	200	98		P
Cobalt	ug/L	89 - 114	98.0		15.0	U	100	98		P
Copper	ug/L	86 - 114	140		10.0	U	150	93		P
Iron	ug/L	87 - 115	2170		678		1500	99		P
Lead	ug/L	86 - 113	471		6.00	U	500	94		P
Magnesium	ug/L	85 - 113	2250		1330		1000	92		P
Manganese	ug/L	90 - 114	170		52.0		100	118	N	P
Nickel	ug/L	88 - 113	241		20.0	U	250	96		P
Potassium	ug/L	86 - 114	351000		333000		5000	359		P
Selenium	ug/L	83 - 114	916		10.0	U	1000	92		P
Silver	ug/L	84 - 115	29.9		5.00	U	37.5	80	N	P
Sodium	ug/L	87 - 115	48000		44800		1500	217		P
Thallium	ug/L	85 - 114	905		20.0	U	1000	90		P
Vanadium	ug/L	90 - 111	141		20.0	U	150	94		P
Zinc	ug/L	87 - 115	101		20.0	U	100	101		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q1985

contract: TETR06 **lab code:** CHEM **case no.:** Q1985 **sas no.:** Q1985

matrix: Water **sample id:** Q1985-01 **client id:** RW8-BW-20250507MSD

Percent Solids for Sample: NA **Spiked ID:** Q1985-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	86 - 115	962		24.0	J	1000	94		P
Antimony	ug/L	88 - 113	381		25.0	U	400	95		P
Arsenic	ug/L	87 - 113	391		10.0	U	400	98		P
Barium	ug/L	88 - 113	93.2		50.0	U	100	93		P
Beryllium	ug/L	89 - 112	92.2		3.00	U	100	92		P
Cadmium	ug/L	88 - 113	98.3		3.00	U	100	98		P
Calcium	ug/L	87 - 113	1840		1380		500	92		P
Chromium	ug/L	90 - 113	198		2.48	J	200	98		P
Cobalt	ug/L	89 - 114	97.2		15.0	U	100	97		P
Copper	ug/L	86 - 114	138		10.0	U	150	92		P
Iron	ug/L	87 - 115	2140		678		1500	97		P
Lead	ug/L	86 - 113	469		6.00	U	500	94		P
Magnesium	ug/L	85 - 113	2220		1330		1000	89		P
Manganese	ug/L	90 - 114	113		52.0		100	61	N	P
Nickel	ug/L	88 - 113	238		20.0	U	250	95		P
Potassium	ug/L	86 - 114	343000		333000		5000	207		P
Selenium	ug/L	83 - 114	915		10.0	U	1000	92		P
Silver	ug/L	84 - 115	29.3		5.00	U	37.5	78	N	P
Sodium	ug/L	87 - 115	46900		44800		1500	141		P
Thallium	ug/L	85 - 114	895		20.0	U	1000	90		P
Vanadium	ug/L	90 - 111	139		20.0	U	150	93		P
Zinc	ug/L	87 - 115	100		20.0	U	100	100		P

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metals
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MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q1985

contract: TETR06 **lab code:** CHEM **case no.:** Q1985 **sas no.:** Q1985

matrix: Water **sample id:** Q2008-01 **client id:** IDW-AQ-DRUM-633-05092025MS

Percent Solids for Sample: NA **Spiked ID:** Q2008-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.56		0.082	J	4.0	87		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q1985

contract: TETR06 **lab code:** CHEM **case no.:** Q1985 **sas no.:** Q1985

matrix: Water **sample id:** Q2008-01 **client id:** IDW-AQ-DRUM-633-05092025MSD

Percent Solids for Sample: NA **Spiked ID:** Q2008-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.25		0.082	J	4.0	79	N	CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Matrix: Water **Level:** LOW **Client ID:** RW8-BW-20250507A

Sample ID: Q1985-01 **Spiked ID:** Q1985-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Manganese	ug/L	90 - 114	140		52.0		100	88	N	P
Silver	ug/L	84 - 115	25.3		5.00	U	37.5	68	N	P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Matrix: Water **Level:** LOW **Client ID:** IDW-AQ-DRUM-633-05092025A

Sample ID: Q2008-01 **Spiked ID:** Q2008-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.86		0.082	J	4.00	94		CV

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Matrix: Water **Sample ID:** Q1985-01 **Client ID:** RW8-BW-20250507DUP

Percent Solids for Sample: NA **Duplicate ID** Q1985-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	24.0	J	31.0	J	25		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	50.0	U	50.0	U			P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	1380		1390		1		P
Chromium	ug/L	20	2.48	J	2.47	J	0		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	678		687		1		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	1330		1320		1		P
Manganese	ug/L	20	52.0		18.7		94	*	P
Nickel	ug/L	20	20.0	U	20.0	U			P
Potassium	ug/L	20	333000		344000		3		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	44800		46000		3		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	20.0	U	20.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Matrix: Water **Sample ID:** Q1985-01MS **Client ID:** RW8-BW-20250507MSD

Percent Solids for Sample: NA **Duplicate ID** Q1985-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	967		962		1		P
Antimony	ug/L	20	384		381		1		P
Arsenic	ug/L	20	394		391		1		P
Barium	ug/L	20	95.0		93.2		2		P
Beryllium	ug/L	20	90.9		92.2		1		P
Cadmium	ug/L	20	99.0		98.3		1		P
Calcium	ug/L	20	1880		1840		2		P
Chromium	ug/L	20	199		198		1		P
Cobalt	ug/L	20	98.0		97.2		1		P
Copper	ug/L	20	140		138		1		P
Iron	ug/L	20	2170		2140		1		P
Lead	ug/L	20	471		469		0		P
Magnesium	ug/L	20	2250		2220		1		P
Manganese	ug/L	20	170		113		40	*	P
Nickel	ug/L	20	241		238		1		P
Potassium	ug/L	20	351000		343000		2		P
Selenium	ug/L	20	916		915		0		P
Silver	ug/L	20	29.9		29.3		2		P
Sodium	ug/L	20	48000		46900		2		P
Thallium	ug/L	20	905		895		1		P
Vanadium	ug/L	20	141		139		1		P
Zinc	ug/L	20	101		100		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Matrix: Water **Sample ID:** Q2008-01 **Client ID:** IDW-AQ-DRUM-633-05092025DUP

Percent Solids for Sample: NA **Duplicate ID** Q2008-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.082	J	0.20	U	200.0		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Matrix: Water **Sample ID:** Q2008-01MS **Client ID:** IDW-AQ-DRUM-633-05092025MSD

Percent Solids for Sample: NA **Duplicate ID** Q2008-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.56		3.25		9		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167955BS							
Aluminum	ug/L	1000	914		91	86 - 115	P
Antimony	ug/L	400	382		96	88 - 113	P
Arsenic	ug/L	400	382		96	87 - 113	P
Barium	ug/L	100	107		107	88 - 113	P
Beryllium	ug/L	100	96.5		96	89 - 112	P
Cadmium	ug/L	100	97.5		98	88 - 113	P
Calcium	ug/L	500	461	J	92	87 - 113	P
Chromium	ug/L	200	190		95	90 - 113	P
Cobalt	ug/L	100	94.5		94	89 - 114	P
Copper	ug/L	150	145		97	86 - 114	P
Iron	ug/L	1500	1400		93	87 - 115	P
Lead	ug/L	500	473		95	86 - 113	P
Magnesium	ug/L	1000	872	J	87	85 - 113	P
Manganese	ug/L	100	92.3		92	90 - 114	P
Nickel	ug/L	250	240		96	88 - 113	P
Potassium	ug/L	5000	4550		91	86 - 114	P
Selenium	ug/L	1000	973		97	83 - 114	P
Silver	ug/L	37.5	34.3		92	84 - 115	P
Sodium	ug/L	1500	1330		89	87 - 115	P
Thallium	ug/L	1000	968		97	85 - 114	P
Vanadium	ug/L	150	139		93	90 - 111	P
Zinc	ug/L	100	94.6		95	87 - 115	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167980BS							
Mercury	ug/L	4.0	3.71		93	82 - 119	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-BW-20250507L

Lab Name: Chemtech Consulting Group **Contract:** TETR06

Lab Code: CHEM **Lb No.:** lb135794 **Lab Sample ID :** Q1985-01L **SDG No.:** Q1985

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	24.0	J	47.8	J	99		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	50.0	U	250	U			P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.00	U	15.0	U			P
Calcium	1380		1330	J	4		P
Chromium	2.48	J	25.0	U	100.0		P
Cobalt	15.0	U	75.0	U			P
Copper	10.0	U	50.0	U			P
Iron	678		612		10		P
Lead	6.00	U	30.0	U			P
Magnesium	1330		1270	J	5		P
Manganese	52.0		49.6	J	5		P
Nickel	20.0	U	100	U			P
Potassium	333000		304000		9		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	44800		40500		10		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	20.0	U	100	U			P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

IDW-AQ-DRUM-633-05092025L

Lab Name: Chemtech Consulting Group **Contract:** TETR06

Lab Code: CHEM **Lb No.:** lb135763 **Lab Sample ID :** Q2008-01L **SDG No.:** Q1985

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.082	J	1.00	U	100.0		CV

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1985 **SAS No.:** Q1985

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Method:**

Case No.: Q1985 **SAS No.:** Q1985

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167955**						
PB167955BL	PB167955BL	MB	WATER	05/12/2025	50.0	25.0	
PB167955BS	PB167955BS	LCS	WATER	05/12/2025	50.0	25.0	
Q1985-01	RW8-BW-20250507	SAM	WATER	05/12/2025	50.0	25.0	
Q1985-01DUP	RW8-BW-20250507DUP	DUP	WATER	05/12/2025	50.0	25.0	
Q1985-01MS	RW8-BW-20250507MS	MS	WATER	05/12/2025	50.0	25.0	
Q1985-01MSD	RW8-BW-20250507MSD	MSD	WATER	05/12/2025	50.0	25.0	

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SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Contract: TETR06 **Lab Code:** CHEM **Method:**

Case No.: Q1985 **SAS No.:** Q1985

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167980**						
PB167980BL	PB167980BL	MB	WATER	05/13/2025	30.0	30.0	
PB167980BS	PB167980BS	LCS	WATER	05/13/2025	30.0	30.0	
Q1985-01	RW8-BW-20250507	SAM	WATER	05/13/2025	30.0	30.0	
Q2008-01DUP	IDW-AQ-DRUM-633-05092025DUP	DUP	WATER	05/13/2025	30.0	30.0	
Q2008-01MS	IDW-AQ-DRUM-633-05092025MS	MS	WATER	05/13/2025	30.0	30.0	
Q2008-01MSD	IDW-AQ-DRUM-633-05092025MSD	MSD	WATER	05/13/2025	30.0	30.0	

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ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc. **Contract:** TETR06

Lab code: CHEM **Case no.:** Q1985 **Sas no.:** Q1985 **Sdg no.:** Q1985

Instrument id number: **Method:** **Run number:** LB135763

Start date: 05/14/2025 **End date:** 05/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1127	HG
S0.2	S0.2	1	1130	HG
S2.5	S2.5	1	1132	HG
S5	S5	1	1134	HG
S7.5	S7.5	1	1136	HG
S10	S10	1	1139	HG
ICV08	ICV08	1	1142	HG
ICB08	ICB08	1	1144	HG
CCV22	CCV22	1	1146	HG
CCB22	CCB22	1	1151	HG
CRA	CRA	1	1154	HG
CCV23	CCV23	1	1224	HG
CCB23	CCB23	1	1226	HG
CCV24	CCV24	1	1251	HG
CCB24	CCB24	1	1254	HG
CCV25	CCV25	1	1328	HG
CCB25	CCB25	1	1330	HG
PB167980BL	PB167980BL	1	1353	HG
CCV26	CCV26	1	1355	HG
CCB26	CCB26	1	1357	HG
PB167980BS	PB167980BS	1	1400	HG
Q1985-01	RW8-BW-20250507	1	1411	HG
Q2008-01DUP	IDW-AQ-DRUM-633-05092025	1	1420	HG
CCV27	CCV27	1	1423	HG
CCB27	CCB27	1	1425	HG
Q2008-01MS	IDW-AQ-DRUM-633-05092025	1	1427	HG
Q2008-01MSD	IDW-AQ-DRUM-633-05092025	1	1429	HG
CCV28	CCV28	1	1439	HG
CCB28	CCB28	1	1441	HG
Q2008-01L	IDW-AQ-DRUM-633-05092025	5	1452	HG
Q2008-01A	IDW-AQ-DRUM-633-05092025	1	1455	HG
CCV29	CCV29	1	1457	HG
CCB29	CCB29	1	1459	HG

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ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc. **Contract:** TETR06

Lab code: CHEM **Case no.:** Q1985 **Sas no.:** Q1985 **Sdg no.:** Q1985

Instrument id number: **Method:** **Run number:** LB135778

Start date: 05/14/2025 **End date:** 05/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1212	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1216	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1221	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1225	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1229	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1233	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1324	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1334	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1338	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1343	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1409	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1416	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1451	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1456	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1553	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1557	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1644	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1648	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1808	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1812	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167955BL	PB167955BL	1	1825	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167955BS	PB167955BS	1	1904	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1921	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1925	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc. **Contract:** TETR06

Lab code: CHEM **Case no.:** Q1985 **Sas no.:** Q1985 **Sdg no.:** Q1985

Instrument id number: **Method:** **Run number:** LB135794

Start date: 05/15/2025 **End date:** 05/15/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1312	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1316	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1320	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1324	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1329	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1333	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1337	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1347	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1351	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1401	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1422	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1505	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1509	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1985-01	RW8-BW-20250507	1	1540	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1985-01DUP	RW8-BW-20250507DUP	1	1544	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1985-01L	RW8-BW-20250507L	5	1548	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1553	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1557	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1985-01MS	RW8-BW-20250507MS	1	1601	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1985-01MSD	RW8-BW-20250507MSD	1	1605	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1985-01A	RW8-BW-20250507A	1	1610	Ag,Mn
CCV04	CCV04	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1644	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1731	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1741	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1756	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1847	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1852	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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LAB CHRONICLE

OrderID:	Q1985	**OrderDate:**	5/8/2025 10:49:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1985-01	**RW8-BW-20250507**	**WATER**			**05/07/25 12:30**			**05/08/25**
			pH	9040C			05/08/25 16:20	
			TSS	SM2540 D			05/13/25 10:00	

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/07/25 12:30
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/08/25
Client Sample ID:	RW8-BW-20250507	SDG No.:	Q1985
Lab Sample ID:	Q1985-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	8.30	H	1	0	0	0	pH		05/08/25 16:20	9040C
TSS	16.5		1	1.00	4.00	4.00	mg/L		05/13/25 10:00	SM 2540 D-15

Comments: pH result reported at temperature 21.6 °C

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

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client:	Tetra Tech NUS, Inc.	**SDG No.:**	Q1985
Project:	NWIRP Bethpage 112G08005-WE13	**RunNo.:**	LB135711

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
pH		pH	7.02	7	100	90-110	05/08/2025
Sample ID:	**CCV1**						
pH		pH	2.01	2.00	101	90-110	05/08/2025
Sample ID:	**CCV2**						
pH		pH	12.02	12.00	100	90-110	05/08/2025

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Preparation Blank Summary

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1985

Project: NWIRP Bethpage 112G08005-WE13

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB135749BL							
TSS	mg/L	1	2.0000	J	1	4	05/13/2025

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Duplicate Sample Summary

Client: Tetra Tech NUS, Inc.
SDG No.: Q1985
Project: NWIRP Bethpage 112G08005-WE13
Sample ID: Q1981-02
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	256		262		1	2.32		05/13/2025

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Duplicate Sample Summary

Client: Tetra Tech NUS, Inc.
SDG No.: Q1985
Project: NWIRP Bethpage 112G08005-WE13
Sample ID: Q1985-01
Client ID: RW8-BW-20250507DUP
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
pH	pH	+/-20	8.30		8.32		1	0.24		05/08/2025

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

Laboratory Control Sample Summary

Client:	Tetra Tech NUS, Inc.	**SDG No.:**	Q1985
Project:	NWIRP Bethpage 112G08005-WE13	**Run No.:**	LB135749

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135749BS								
TSS	mg/L	550	532		97	1	90-110	05/13/2025

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: Q1985

COC Number:

CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
COMPANY: Tetra Tech	PROJECT NAME: NWIRP Bethpage	BILL TO: PO#
ADDRESS: 4433 Corporation Ln, Suite 300	PROJECT #: 112G08005-WE13 LOCATION: RW8	ADDRESS:
CITY: Virginia Beach STATE: VA ZIP: 23462	PROJECT MANAGER: Ernie Wu	CITY: STATE: ZIP:
ATTENTION: Ernie Wu	E-MAIL: ernie,wu@tetratech.com	ATTENTION: PHONE:
PHONE: 757-466-4901 FAX: 757-461-4148	PHONE: 757-466-4901 FAX: 757-461-4148	

DATA TURNAROUND INFORMATION

FAX: 5 DAYS*
HARD COPY: 5 DAYS*
EDD 5 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESELTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ EDD Format
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other

ANALYSIS

	1,4-Dioxane SW846 8270 SIM	VOC SW846 8260	TAL Metals	pH	TSS	SVOC 8270			
	1	2	3	4	5	6	7	8	9
PRESERVATIVES		A	B						
	1	2	3	4	5	6	7	8	9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	COMMENTS
1.	RW8-BW-20250507	GW		x	5/7/25	12:30	8	
2.	TB-20250507	WQ		x	5/7/25	9:00	3	
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	5/7/25 1550	1.
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2. FedEx	5-8-25 0950	2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.3°C
☐ Ice in Cooler?: Y
MeOH extraction requires an additional 4oz. Jar for percent solid
Comments: Adjust Factor +1 IAL Run #1

Page ____ of ____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

Alliance TECHNICAL GROUP
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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1985 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 5/8/2025 10:49:00 AM
Project Name : NWIRP Bethpage 112G080
Receive DateTime : 5/8/2025 9:50:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1985-01	RW8-BW-20250507	Water	05/07/2025	12:30					
					VOCMS Group1		8260-Low		5 Bus. Days
Q1985-02	TB-20250507	Water	05/07/2025	09:00					
					VOCMS Group1		8260-Low		5 Bus. Days

Relinguished By : JM
Date / Time : 5/8/25 1143

Received By : JC
Date / Time : 5/8/25 1143

Storage Area : **VOA Refridgerator Room**