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

ANALYTICAL RESULTS SUMMARY

GENERAL CHEMISTRY
METALS
GC SEMI-VOLATILES
SEMI-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 : Q1122

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

Table Of Contents for Q1122

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

Order ID : Q1122

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q1122-01	RW10A-20250116
Q1122-02	RW10A-F-20250116

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

Signature : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:50 am, Feb 03, 2025

Date: 1/30/2025

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
Chemtech Project # Q1122
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
2 Water samples were received on 01/16/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, PCB, PESTICIDE Group2, Pesticide-PCB, Pesticide-TCL, pH, Phosphorus-Total, SVOC-TCL BNA -20, TDS and TSS. 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 RPD met criteria .

The Blank Spike for {PB166117BS} with File ID: BF141218.D met requirements for all samples except for Hexachlorocyclopentadiene[190%] but no positive hit in associated sample therefore no corrective action taken.

The Blank Spike Duplicate for {PB166117BSD} with File ID: BF141219.D met requirements for all samples except for Hexachlorocyclopentadiene[190%] but no positive hit in associated sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID BF141212.D met the requirements except for 4,6-Dinitro-2-methylphenol but no positive hit in associated sample therefore no corrective action taken.

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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 Form 6 is not included in the data package because the Initial Calibration was performed using 8 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.

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:50 am, Feb 03, 2025

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

CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager: Ernie Wu
Chemtech Project # Q1122
Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:
2 Water samples were received on 01/16/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, PCB, PESTICIDE Group2, Pesticide-PCB, Pesticide-TCL, pH, Phosphorus-Total, SVOC-TCL BNA -20, TDS and TSS. This data package contains results for Pesticide-TCL.

C. Analytical Techniques:
The analysis was performed on instrument ECD_L. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.The analysis of Pesticide-TCLs was based on method 8081B 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 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 .

E. Additional Comments:
Sample# RW10A-20250116 was received with Limited volume for Pesticide, client aware of this issue, see ROC in shipping document section.

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."
The not QT review data is reported in the Miscellaneous.

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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 _____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:50 am, Feb 03, 2025

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Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager : Ernie Wu
Chemtech Project # Q1122
Test Name: PCB

A. Number of Samples and Date of Receipt:
2 Water samples were received on 01/16/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, PCB, PESTICIDE Group2, Pesticide-PCB, Pesticide-TCL, pH, Phosphorus-Total, SVOC-TCL BNA -20, TDS and TSS. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A 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 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 File ID PP069229.D met the requirements except for Aroclor-1260(Peak-04) is failing in 2nd column but it is passing for 1st column therefore no corrective action taken.

E. Additional Comments:
Sample# RW10A-20250116 was received with Limited volume for PCB, client aware of this issue, see ROC in shipping document section.

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The laboratory cRW10A-20250116ertifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).
The not QT review data is reported in the Miscellaneous.

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_____

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:50 am, Feb 03, 2025

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

CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager: Ernie Wu
Chemtech Project # Q1122
Test Name: Dissolved ICP-TAL Metals,Metals ICP-TAL,Dissolved Mercury,Mercury

A. Number of Samples and Date of Receipt:
2 Water samples were received on 01/16/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, PCB, PESTICIDE Group2, Pesticide-PCB, Pesticide-TCL, pH, Phosphorus-Total, SVOC-TCL BNA -20, TDS and TSS. This data package contains results for Dissolved ICP-TAL Metals,Metals ICP-TAL,Dissolved Mercury,Mercury.

C. Analytical Techniques:
The analysis of Dissolved ICP-TAL Metals,Metals ICP-TAL was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of Dissolved Mercury,Mercury was based on method 7470A.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (RW10A-F-20250116MS) analysis met criteria for all samples except for Aluminum, Barium, Beryllium, Iron, Magnesium, Manganese, Vanadium due to matrix interference.
The Matrix Spike Duplicate (RW10A-F-20250116MSD) analysis met criteria for all samples except for Beryllium, Magnesium, Manganese due to matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
Sample Q1122-01 was analyzed as total Metals and sample Q1122-02 was analyzed as Dissolved Metals.

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.

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:51 am, Feb 03, 2025

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager: Ernie Wu
Chemtech Project # Q1122
Test Name: pH,Alkalinity,Phosphorus-Total,TDS,TSS

A. Number of Samples and Date of Receipt:
2 Water samples were received on 01/16/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, PCB, PESTICIDE Group2, Pesticide-PCB, Pesticide-TCL, pH, Phosphorus-Total, SVOC-TCL BNA -20, TDS and TSS. This data package contains results for pH,Alkalinity,Phosphorus-Total,TDS,TSS.

C. Analytical Techniques:
The analysis of Phosphorus-Total was based on method 365.3, The analysis of pH was based on method 9040C, The analysis of Alkalinity was based on method SM2320 B, The analysis of TDS was based on method SM2540 C 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 RW10A-20250116 of pH, as this sample received out of hold.

The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike 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.

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:51 am, Feb 03, 2025

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

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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Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1122

	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:** 01/30/2025

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LAB CHRONICLE

OrderID:	Q1122	**OrderDate:**	1/17/2025 8:43:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	E11,M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1122-01	**RW10A-20250116**	**Water**			**01/16/25**			**01/16/25**
			SVOC-TCL BNA -20	8270E		01/17/25	01/20/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**RW10A-20250116**								
Q1122-01	RW10A-20250116	WATER	2-Pentanone, 4-hydroxy-4-methyl *	3.700	AB	0		0	ug/L
			Total Tics :		**3.70**				
			Total Concentration:		**3.70**				

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:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 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
BF141221.D	1	01/17/25 11:40	01/20/25 14:39	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
100-52-7	Benzaldehyde	8.10	U	4.00	8.10	10.1	ug/L
108-95-2	Phenol	4.00	U	0.94	4.00	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	4.00	U	1.20	4.00	5.10	ug/L
95-57-8	2-Chlorophenol	4.00	U	0.72	4.00	5.10	ug/L
95-48-7	2-Methylphenol	4.00	U	1.10	4.00	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	4.00	U	1.40	4.00	5.10	ug/L
98-86-2	Acetophenone	4.00	U	1.10	4.00	5.10	ug/L
65794-96-9	3+4-Methylphenols	8.10	U	1.20	8.10	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	1.50	2.50	2.50	ug/L
67-72-1	Hexachloroethane	4.00	U	1.00	4.00	5.10	ug/L
98-95-3	Nitrobenzene	4.00	U	1.30	4.00	5.10	ug/L
78-59-1	Isophorone	4.00	U	1.20	4.00	5.10	ug/L
88-75-5	2-Nitrophenol	4.00	U	2.00	4.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	4.00	U	1.50	4.00	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	4.00	U	1.00	4.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	4.00	U	0.89	4.00	5.10	ug/L
91-20-3	Naphthalene	4.00	U	1.00	4.00	5.10	ug/L
106-47-8	4-Chloroaniline	4.00	U	1.30	4.00	5.10	ug/L
87-68-3	Hexachlorobutadiene	4.00	U	1.30	4.00	5.10	ug/L
105-60-2	Caprolactam	8.10	U	1.70	8.10	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	4.00	U	0.85	4.00	5.10	ug/L
91-57-6	2-Methylnaphthalene	4.00	U	1.10	4.00	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	8.10	UQ	5.10	8.10	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	4.00	U	0.90	4.00	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	4.00	U	1.00	4.00	5.10	ug/L
92-52-4	1,1-Biphenyl	4.00	U	0.92	4.00	5.10	ug/L
91-58-7	2-Chloronaphthalene	4.00	U	0.98	4.00	5.10	ug/L
88-74-4	2-Nitroaniline	4.00	U	1.40	4.00	5.10	ug/L
131-11-3	Dimethylphthalate	4.00	U	0.94	4.00	5.10	ug/L

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 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
BF141221.D	1	01/17/25 11:40	01/20/25 14:39	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
208-96-8	Acenaphthylene	4.00	U	1.10	4.00	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	4.00	U	1.30	4.00	5.10	ug/L
99-09-2	3-Nitroaniline	4.00	U	1.40	4.00	5.10	ug/L
83-32-9	Acenaphthene	4.00	U	0.82	4.00	5.10	ug/L
51-28-5	2,4-Dinitrophenol	8.10	U	6.50	8.10	10.1	ug/L
100-02-7	4-Nitrophenol	8.10	U	2.00	8.10	10.1	ug/L
132-64-9	Dibenzofuran	4.00	U	0.94	4.00	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	4.00	U	1.50	4.00	5.10	ug/L
84-66-2	Diethylphthalate	4.00	U	1.10	4.00	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	4.00	U	0.99	4.00	5.10	ug/L
86-73-7	Fluorene	4.00	U	0.97	4.00	5.10	ug/L
100-01-6	4-Nitroaniline	4.00	U	2.10	4.00	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	8.10	U	3.10	8.10	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	4.00	U	0.90	4.00	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	4.00	U	0.96	4.00	5.10	ug/L
118-74-1	Hexachlorobenzene	4.00	U	1.20	4.00	5.10	ug/L
1912-24-9	Atrazine	4.00	U	1.30	4.00	5.10	ug/L
87-86-5	Pentachlorophenol	8.10	U	1.90	8.10	10.1	ug/L
85-01-8	Phenanthrene	4.00	U	0.90	4.00	5.10	ug/L
120-12-7	Anthracene	4.00	U	1.10	4.00	5.10	ug/L
86-74-8	Carbazole	4.00	U	1.20	4.00	5.10	ug/L
84-74-2	Di-n-butylphthalate	4.00	U	1.50	4.00	5.10	ug/L
206-44-0	Fluoranthene	4.00	U	1.30	4.00	5.10	ug/L
129-00-0	Pyrene	4.00	U	1.10	4.00	5.10	ug/L
85-68-7	Butylbenzylphthalate	4.00	U	2.10	4.00	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	8.10	U	1.30	8.10	10.1	ug/L
56-55-3	Benzo(a)anthracene	4.00	U	0.95	4.00	5.10	ug/L
218-01-9	Chrysene	4.00	U	0.87	4.00	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	4.00	U	1.90	4.00	5.10	ug/L
117-84-0	Di-n-octyl phthalate	8.10	U	2.50	8.10	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	4.00	U	1.20	4.00	5.10	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 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
BF141221.D	1	01/17/25 11:40	01/20/25 14:39	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	4.00	U	1.20	4.00	5.10	ug/L
50-32-8	Benzo(a)pyrene	4.00	U	1.70	4.00	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	4.00	U	1.00	4.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	4.00	U	1.20	4.00	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	4.00	U	1.20	4.00	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	4.00	U	1.10	4.00	5.10	ug/L
123-91-1	1,4-Dioxane	4.00	U	1.30	4.00	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	4.00	U	0.80	4.00	5.10	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	51.2		19 - 119		34%	SPK: 150
13127-88-3	Phenol-d6	30.6		10 - 130		20%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.1		44 - 120		86%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.3		44 - 119		88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	161		43 - 140		107%	SPK: 150
1718-51-0	Terphenyl-d14	80.4		50 - 134		80%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	158000	6.81				
1146-65-2	Naphthalene-d8	630000	8.092				
15067-26-2	Acenaphthene-d10	341000	9.845				
1517-22-2	Phenanthrene-d10	587000	11.327				
1719-03-5	Chrysene-d12	417000	13.968				
1520-96-3	Perylene-d12	333000	15.427				
TENTATIVE IDENTIFIED COMPOUNDS							
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.70	AB			5.01	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 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
BF141221.D	1	01/17/25 11:40	01/20/25 14:39	PB166117

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.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166117BL	PB166117BL	2-Fluorophenol	150	144	96		19	119
		Phenol-d6	150	141	94		10	130
		Nitrobenzene-d5	100	97.8	98		44	120
		2-Fluorobiphenyl	100	98.6	99		44	119
		2,4,6-Tribromophenol	150	162	108		43	140
		Terphenyl-d14	100	92.3	92		50	134
PB166117BS	PB166117BS	2-Fluorophenol	150	136	91		19	119
		Phenol-d6	150	135	90		10	130
		Nitrobenzene-d5	100	94.7	95		44	120
		2-Fluorobiphenyl	100	95.4	95		44	119
		2,4,6-Tribromophenol	150	157	105		43	140
		Terphenyl-d14	100	96.5	97		50	134
PB166117BSD	PB166117BSD	2-Fluorophenol	150	134	90		19	119
		Phenol-d6	150	135	90		10	130
		Nitrobenzene-d5	100	96.2	96		44	120
		2-Fluorobiphenyl	100	96.2	96		44	119
		2,4,6-Tribromophenol	150	160	106		43	140
		Terphenyl-d14	100	99.3	99		50	134
Q1122-01	RW10A-20250116	2-Fluorophenol	150	51.2	34		19	119
		Phenol-d6	150	30.6	20		10	130
		Nitrobenzene-d5	100	86.1	86		44	120
		2-Fluorobiphenyl	100	88.3	88		44	119
		2,4,6-Tribromophenol	150	161	107		43	140
		Terphenyl-d14	100	80.4	80		50	134

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF141218.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166117BS	Benzaldehyde	50	8.30	ug/L	17				10	161	
	Phenol	50	48.5	ug/L	97				10	132	
	bis(2-Chloroethyl)ether	50	49.2	ug/L	98				43	118	
	2-Chlorophenol	50	51.1	ug/L	102				38	117	
	2-Methylphenol	50	50.7	ug/L	101				30	117	
	2,2-oxybis(1-Chloropropane)	50	47.1	ug/L	94				37	130	
	Acetophenone	50	47.8	ug/L	96				46	118	
	3+4-Methylphenols	50	48.4	ug/L	97				29	110	
	N-Nitroso-di-n-propylamine	50	49.2	ug/L	98				49	119	
	Hexachloroethane	50	48.5	ug/L	97				21	115	
	Nitrobenzene	50	45.7	ug/L	91				45	121	
	Isophorone	50	49.4	ug/L	99				42	124	
	2-Nitrophenol	50	51.8	ug/L	104				47	123	
	2,4-Dimethylphenol	50	58.3	ug/L	117				31	124	
	bis(2-Chloroethoxy)methane	50	48.3	ug/L	97				48	120	
	2,4-Dichlorophenol	50	50.3	ug/L	101				47	121	
	Naphthalene	50	47.4	ug/L	95				40	121	
	4-Chloroaniline	50	18.2	ug/L	36				33	117	
	Hexachlorobutadiene	50	47.2	ug/L	94				22	124	
	Caprolactam	50	47.5	ug/L	95				10	161	
	4-Chloro-3-methylphenol	50	49.8	ug/L	100				52	119	
	2-Methylnaphthalene	50	48.5	ug/L	97				40	121	
	Hexachlorocyclopentadiene	100	190	ug/L	190		*		10	155	
	2,4,6-Trichlorophenol	50	51.3	ug/L	103				50	125	
	2,4,5-Trichlorophenol	50	49.2	ug/L	98				53	123	
	1,1-Biphenyl	50	48.8	ug/L	98				49	115	
	2-Chloronaphthalene	50	47.0	ug/L	94				40	116	
	2-Nitroaniline	50	49.2	ug/L	98				55	127	
	Dimethylphthalate	50	50.0	ug/L	100				45	127	
	Acenaphthylene	50	51.3	ug/L	103				41	130	
	2,6-Dinitrotoluene	50	48.7	ug/L	97				57	124	
	3-Nitroaniline	50	30.0	ug/L	60				41	128	
	Acenaphthene	50	55.1	ug/L	110				47	122	
	2,4-Dinitrophenol	100	120	ug/L	120				23	143	
	4-Nitrophenol	100	100	ug/L	100				10	161	
	Dibenzofuran	50	48.8	ug/L	98				53	118	
	2,4-Dinitrotoluene	50	51.6	ug/L	103				57	128	
	Diethylphthalate	50	49.5	ug/L	99				56	125	
	4-Chlorophenyl-phenylether	50	49.0	ug/L	98				53	121	
	Fluorene	50	49.0	ug/L	98				52	124	
	4-Nitroaniline	50	49.6	ug/L	99				35	120	
	4,6-Dinitro-2-methylphenol	50	60.4	ug/L	121				44	137	
	N-Nitrosodiphenylamine	50	50.4	ug/L	101				51	123	
	4-Bromophenyl-phenylether	50	50.9	ug/L	102				55	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF141218.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166117BS	Hexachlorobenzene	50	51.4	ug/L	103				53	125	
	Atrazine	50	64.3	ug/L	129				44	142	
	Pentachlorophenol	100	100	ug/L	100				35	138	
	Phenanthrene	50	51.6	ug/L	103				59	120	
	Anthracene	50	53.6	ug/L	107				57	123	
	Carbazole	50	51.3	ug/L	103				60	122	
	Di-n-butylphthalate	50	52.2	ug/L	104				59	127	
	Fluoranthene	50	53.3	ug/L	107				57	128	
	Pyrene	50	46.0	ug/L	92				57	126	
	Butylbenzylphthalate	50	53.8	ug/L	108				53	134	
	3,3-Dichlorobenzidine	50	29.2	ug/L	58				27	129	
	Benzo(a)anthracene	50	47.4	ug/L	95				58	125	
	Chrysene	50	49.7	ug/L	99				59	123	
	bis(2-Ethylhexyl)phthalate	50	54.2	ug/L	108				55	135	
	Di-n-octyl phthalate	50	53.3	ug/L	107				51	140	
	Benzo(b)fluoranthene	50	54.7	ug/L	109				53	131	
	Benzo(k)fluoranthene	50	49.8	ug/L	100				57	129	
	Benzo(a)pyrene	50	55.2	ug/L	110				54	128	
	Indeno(1,2,3-cd)pyrene	50	49.4	ug/L	99				52	134	
	Dibenz(a,h)anthracene	50	48.8	ug/L	98				51	134	
	Benzo(g,h,i)perylene	50	44.9	ug/L	90				50	134	
	1,2,4,5-Tetrachlorobenzene	50	49.3	ug/L	99				35	121	
	1,4-Dioxane	50	41.3	ug/L	83				70	130	
	2,3,4,6-Tetrachlorophenol	50	51.8	ug/L	104				50	128	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF141219.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166117BSD	Benzaldehyde	50	8.20	ug/L	16	1			10	161	20
	Phenol	50	47.7	ug/L	95	2			10	132	20
	bis(2-Chloroethyl)ether	50	48.2	ug/L	96	2			43	118	20
	2-Chlorophenol	50	51.1	ug/L	102	0			38	117	20
	2-Methylphenol	50	50.5	ug/L	101	0			30	117	20
	2,2-oxybis(1-Chloropropane)	50	46.7	ug/L	93	1			37	130	20
	Acetophenone	50	48.3	ug/L	97	1			46	118	20
	3+4-Methylphenols	50	47.8	ug/L	96	1			29	110	20
	N-Nitroso-di-n-propylamine	50	48.4	ug/L	97	2			49	119	20
	Hexachloroethane	50	47.8	ug/L	96	1			21	115	20
	Nitrobenzene	50	46.1	ug/L	92	1			45	121	20
	Isophorone	50	50.4	ug/L	101	2			42	124	20
	2-Nitrophenol	50	53.3	ug/L	107	3			47	123	20
	2,4-Dimethylphenol	50	59.3	ug/L	119	2			31	124	20
	bis(2-Chloroethoxy)methane	50	48.9	ug/L	98	1			48	120	20
	2,4-Dichlorophenol	50	50.9	ug/L	102	1			47	121	20
	Naphthalene	50	48.1	ug/L	96	1			40	121	20
	4-Chloroaniline	50	16.8	ug/L	34	8			33	117	20
	Hexachlorobutadiene	50	48.5	ug/L	97	3			22	124	20
	Caprolactam	50	50.8	ug/L	102	7			10	161	20
	4-Chloro-3-methylphenol	50	50.9	ug/L	102	2			52	119	20
	2-Methylnaphthalene	50	49.6	ug/L	99	2			40	121	20
	Hexachlorocyclopentadiene	100	190	ug/L	190	0	*		10	155	20
	2,4,6-Trichlorophenol	50	52.5	ug/L	105	2			50	125	20
	2,4,5-Trichlorophenol	50	50.4	ug/L	101	2			53	123	20
	1,1-Biphenyl	50	48.9	ug/L	98	0			49	115	20
	2-Chloronaphthalene	50	47.6	ug/L	95	1			40	116	20
	2-Nitroaniline	50	49.5	ug/L	99	1			55	127	20
	Dimethylphthalate	50	50.3	ug/L	101	1			45	127	20
	Acenaphthylene	50	52.1	ug/L	104	2			41	130	20
	2,6-Dinitrotoluene	50	48.7	ug/L	97	0			57	124	20
	3-Nitroaniline	50	29.4	ug/L	59	2			41	128	20
	Acenaphthene	50	55.9	ug/L	112	1			47	122	20
	2,4-Dinitrophenol	100	120	ug/L	120	0			23	143	20
	4-Nitrophenol	100	100	ug/L	100	0			10	161	20
	Dibenzofuran	50	49.6	ug/L	99	2			53	118	20
	2,4-Dinitrotoluene	50	51.7	ug/L	103	0			57	128	20
	Diethylphthalate	50	49.8	ug/L	100	1			56	125	20
	4-Chlorophenyl-phenylether	50	49.4	ug/L	99	1			53	121	20
	Fluorene	50	49.3	ug/L	99	1			52	124	20
	4-Nitroaniline	50	51.2	ug/L	102	3			35	120	20
	4,6-Dinitro-2-methylphenol	50	60.8	ug/L	122	1			44	137	20
	N-Nitrosodiphenylamine	50	50.2	ug/L	100	0			51	123	20
	4-Bromophenyl-phenylether	50	51.2	ug/L	102	1			55	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF141219.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166117BSD	Hexachlorobenzene	50	51.6	ug/L	103	0			53	125	20
	Atrazine	50	63.9	ug/L	128	1			44	142	20
	Pentachlorophenol	100	100	ug/L	100	0			35	138	20
	Phenanthrene	50	51.6	ug/L	103	0			59	120	20
	Anthracene	50	54.1	ug/L	108	1			57	123	20
	Carbazole	50	51.7	ug/L	103	1			60	122	20
	Di-n-butylphthalate	50	51.5	ug/L	103	1			59	127	20
	Fluoranthene	50	53.3	ug/L	107	0			57	128	20
	Pyrene	50	48.0	ug/L	96	4			57	126	20
	Butylbenzylphthalate	50	54.8	ug/L	110	2			53	134	20
	3,3-Dichlorobenzidine	50	29.2	ug/L	58	0			27	129	20
	Benzo(a)anthracene	50	48.7	ug/L	97	3			58	125	20
	Chrysene	50	49.8	ug/L	100	0			59	123	20
	bis(2-Ethylhexyl)phthalate	50	55.1	ug/L	110	2			55	135	20
	Di-n-octyl phthalate	50	52.2	ug/L	104	2			51	140	20
	Benzo(b)fluoranthene	50	48.8	ug/L	98	11			53	131	20
	Benzo(k)fluoranthene	50	56.1	ug/L	112	12			57	129	20
	Benzo(a)pyrene	50	55.5	ug/L	111	1			54	128	20
	Indeno(1,2,3-cd)pyrene	50	51.3	ug/L	103	4			52	134	20
	Dibenz(a,h)anthracene	50	50.8	ug/L	102	4			51	134	20
	Benzo(g,h,i)perylene	50	45.8	ug/L	92	2			50	134	20
	1,2,4,5-Tetrachlorobenzene	50	50.2	ug/L	100	2			35	121	20
	1,4-Dioxane	50	40.5	ug/L	81	2			70	130	20
	2,3,4,6-Tetrachlorophenol	50	53.4	ug/L	107	3			50	128	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166117BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1122 SAS No.: Q1122 SDG NO.: Q1122

Lab File ID: BF141217.D Lab Sample ID: PB166117BL

Instrument ID: BNA_F Date Extracted: 01/17/2025

Matrix: (soil/water) Water Date Analyzed: 01/20/2025

Level: (low/med) LOW Time Analyzed: 12:49

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166117BS	PB166117BS	BF141218.D	01/20/2025
PB166117BSD	PB166117BSD	BF141219.D	01/20/2025
RW10A-20250116	Q1122-01	BF141221.D	01/20/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1122 SDG NO.: Q1122

Lab File ID: BF141108.D DFTPP Injection Date: 01/10/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.2
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	49.8
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	6.6
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	13.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.1 (19.4) 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	BF141109.D	01/10/2025	11:58
SSTDICC005	SSTDICC005	BF141110.D	01/10/2025	12:25
SSTDICC010	SSTDICC010	BF141111.D	01/10/2025	13:17
SSTDICC020	SSTDICC020	BF141112.D	01/10/2025	14:10
SSTDICCC040	SSTDICCC040	BF141113.D	01/10/2025	14:36
SSTDICC050	SSTDICC050	BF141117.D	01/10/2025	16:53
SSTDICC060	SSTDICC060	BF141118.D	01/10/2025	17:19
SSTDICC080	SSTDICC080	BF141119.D	01/10/2025	17:45

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1122 SDG NO.: Q1122

Lab File ID: BF141211.D DFTPP Injection Date: 01/20/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.5
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	34.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.0
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	6.4
275	10.0 - 60.0% of mass 198	30.5
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	17.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.5 (19.5) 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	BF141212.D	01/20/2025	10:37
PB166117BL	PB166117BL	BF141217.D	01/20/2025	12:49
PB166117BS	PB166117BS	BF141218.D	01/20/2025	13:15
PB166117BSD	PB166117BSD	BF141219.D	01/20/2025	13:41
RW10A-20250116	Q1122-01	BF141221.D	01/20/2025	14:39
SSTDCCC040EC	SSTDCCC040	BF141226.D	01/20/2025	16:58

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1122 SAS No.: Q1122 SDG NO.: Q1122

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/20/2025

Lab File ID: BF141212.D Time Analyzed: 10:37

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	179826	6.81	695851	8.09	379338	9.85
	UPPER LIMIT	359652	7.31	1391700	8.592	758676	10.351
	LOWER LIMIT	89913	6.31	347926	7.592	189669	9.351
	EPA SAMPLE NO.						
01	PB166117BL	159319	6.81	644023	8.09	342991	9.85
02	PB166117BS	161782	6.81	655900	8.09	349277	9.85
03	PB166117BSD	161581	6.81	633827	8.09	339384	9.85
04	RW10A-20250116	158020	6.81	629982	8.09	340789	9.85

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.: Q1122 SAS No.: Q1122 SDG NO.: Q1122

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/20/2025

Lab File ID: BF141212.D Time Analyzed: 10:37

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	651777	11.333	435133	13.974	378255	15.439
	UPPER LIMIT	1303550	11.833	870266	14.474	756510	15.939
	LOWER LIMIT	325889	10.833	217567	13.474	189128	14.939
	EPA SAMPLE NO.						
01	PB166117BL	588711	11.33	419427	13.97	332363	15.43
02	PB166117BS	596700	11.33	391687	13.97	341954	15.43
03	PB166117BSD	582564	11.33	369711	13.97	327689	15.43
04	RW10A-20250116	587345	11.33	416765	13.97	333314	15.43

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:	PB166117BL	SDG No.:	Q1122
Lab Sample ID:	PB166117BL	Matrix:	Water
Analytical Method:	SW8270	% 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
BF141217.D	1	01/17/25 11:40	01/20/25 12:49	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
100-52-7	Benzaldehyde	8.00	U	4.00	8.00	10.0	ug/L
108-95-2	Phenol	4.00	U	0.93	4.00	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	4.00	U	1.20	4.00	5.00	ug/L
95-57-8	2-Chlorophenol	4.00	U	0.71	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	1.40	4.00	5.00	ug/L
98-86-2	Acetophenone	4.00	U	1.10	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	8.00	U	1.20	8.00	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	1.50	2.50	2.50	ug/L
67-72-1	Hexachloroethane	4.00	U	1.00	4.00	5.00	ug/L
98-95-3	Nitrobenzene	4.00	U	1.30	4.00	5.00	ug/L
78-59-1	Isophorone	4.00	U	1.10	4.00	5.00	ug/L
88-75-5	2-Nitrophenol	4.00	U	2.00	4.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	4.00	U	1.50	4.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	4.00	U	1.00	4.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	4.00	U	0.88	4.00	5.00	ug/L
91-20-3	Naphthalene	4.00	U	1.00	4.00	5.00	ug/L
106-47-8	4-Chloroaniline	4.00	U	1.30	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	4.00	U	1.30	4.00	5.00	ug/L
105-60-2	Caprolactam	8.00	U	1.70	8.00	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	4.00	U	0.84	4.00	5.00	ug/L
91-57-6	2-Methylnaphthalene	4.00	U	1.10	4.00	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	8.00	U	5.00	8.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	4.00	U	0.89	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	4.00	U	1.00	4.00	5.00	ug/L
92-52-4	1,1-Biphenyl	4.00	U	0.91	4.00	5.00	ug/L
91-58-7	2-Chloronaphthalene	4.00	U	0.97	4.00	5.00	ug/L
88-74-4	2-Nitroaniline	4.00	U	1.40	4.00	5.00	ug/L
131-11-3	Dimethylphthalate	4.00	U	0.93	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:	PB166117BL	SDG No.:	Q1122
Lab Sample ID:	PB166117BL	Matrix:	Water
Analytical Method:	SW8270	% 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
BF141217.D	1	01/17/25 11:40	01/20/25 12:49	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
208-96-8	Acenaphthylene	4.00	U	1.00	4.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	4.00	U	1.20	4.00	5.00	ug/L
99-09-2	3-Nitroaniline	4.00	U	1.40	4.00	5.00	ug/L
83-32-9	Acenaphthene	4.00	U	0.81	4.00	5.00	ug/L
51-28-5	2,4-Dinitrophenol	8.00	U	6.40	8.00	10.0	ug/L
100-02-7	4-Nitrophenol	8.00	U	2.00	8.00	10.0	ug/L
132-64-9	Dibenzofuran	4.00	U	0.93	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	4.00	U	1.50	4.00	5.00	ug/L
84-66-2	Diethylphthalate	4.00	U	1.00	4.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	4.00	U	0.98	4.00	5.00	ug/L
86-73-7	Fluorene	4.00	U	0.96	4.00	5.00	ug/L
100-01-6	4-Nitroaniline	4.00	U	2.00	4.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	8.00	U	3.10	8.00	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	4.00	U	0.89	4.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	4.00	U	0.95	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	4.00	U	1.10	4.00	5.00	ug/L
1912-24-9	Atrazine	4.00	U	1.30	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	8.00	U	1.90	8.00	10.0	ug/L
85-01-8	Phenanthrene	4.00	U	0.89	4.00	5.00	ug/L
120-12-7	Anthracene	4.00	U	1.10	4.00	5.00	ug/L
86-74-8	Carbazole	4.00	U	1.20	4.00	5.00	ug/L
84-74-2	Di-n-butylphthalate	4.00	U	1.50	4.00	5.00	ug/L
206-44-0	Fluoranthene	4.00	U	1.30	4.00	5.00	ug/L
129-00-0	Pyrene	4.00	U	1.10	4.00	5.00	ug/L
85-68-7	Butylbenzylphthalate	4.00	U	2.10	4.00	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	8.00	U	1.30	8.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	4.00	U	0.94	4.00	5.00	ug/L
218-01-9	Chrysene	4.00	U	0.86	4.00	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	4.00	U	1.90	4.00	5.00	ug/L
117-84-0	Di-n-octyl phthalate	8.00	U	2.50	8.00	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	4.00	U	1.10	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:	PB166117BL	SDG No.:	Q1122
Lab Sample ID:	PB166117BL	Matrix:	Water
Analytical Method:	SW8270	% 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
BF141217.D	1	01/17/25 11:40	01/20/25 12:49	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	4.00	U	1.20	4.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	4.00	U	1.70	4.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	4.00	U	1.00	4.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	4.00	U	1.20	4.00	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	4.00	U	1.20	4.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	4.00	U	1.10	4.00	5.00	ug/L
123-91-1	1,4-Dioxane	4.00	U	1.30	4.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	4.00	U	0.79	4.00	5.00	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	144		19 - 119		96%	SPK: 150
13127-88-3	Phenol-d6	141		10 - 130		94%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.8		44 - 120		98%	SPK: 100
321-60-8	2-Fluorobiphenyl	98.6		44 - 119		99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	162		43 - 140		108%	SPK: 150
1718-51-0	Terphenyl-d14	92.3		50 - 134		92%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	159000	6.81				
1146-65-2	Naphthalene-d8	644000	8.092				
15067-26-2	Acenaphthene-d10	343000	9.845				
1517-22-2	Phenanthrene-d10	589000	11.328				
1719-03-5	Chrysene-d12	419000	13.969				
1520-96-3	Perylene-d12	332000	15.433				
TENTATIVE IDENTIFIED COMPOUNDS							
004744-10-9	Propane, 1,1-dimethoxy-	3.80	J			2.25	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	9.70	A			5.04	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:	PB166117BL	SDG No.:	Q1122
Lab Sample ID:	PB166117BL	Matrix:	Water
Analytical Method:	SW8270	% 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
BF141217.D	1	01/17/25 11:40	01/20/25 12:49	PB166117

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:	PB166117BS	SDG No.:	Q1122
Lab Sample ID:	PB166117BS	Matrix:	Water
Analytical Method:	SW8270	% 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
BF141218.D	1	01/17/25 11:40	01/20/25 13:15	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
100-52-7	Benzaldehyde	8.30	J	4.00	8.00	10.0	ug/L
108-95-2	Phenol	48.5		0.93	4.00	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	49.2		1.20	4.00	5.00	ug/L
95-57-8	2-Chlorophenol	51.1		0.71	4.00	5.00	ug/L
95-48-7	2-Methylphenol	50.7		1.10	4.00	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	47.1		1.40	4.00	5.00	ug/L
98-86-2	Acetophenone	47.8		1.10	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	48.4		1.20	8.00	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.2		1.50	2.50	2.50	ug/L
67-72-1	Hexachloroethane	48.5		1.00	4.00	5.00	ug/L
98-95-3	Nitrobenzene	45.7		1.30	4.00	5.00	ug/L
78-59-1	Isophorone	49.4		1.10	4.00	5.00	ug/L
88-75-5	2-Nitrophenol	51.8		2.00	4.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	58.3		1.50	4.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.3		1.00	4.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	50.3		0.88	4.00	5.00	ug/L
91-20-3	Naphthalene	47.4		1.00	4.00	5.00	ug/L
106-47-8	4-Chloroaniline	18.2		1.30	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	47.2		1.30	4.00	5.00	ug/L
105-60-2	Caprolactam	47.5		1.70	8.00	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	49.8		0.84	4.00	5.00	ug/L
91-57-6	2-Methylnaphthalene	48.5		1.10	4.00	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	190	E	5.00	8.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	51.3		0.89	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	49.2		1.00	4.00	5.00	ug/L
92-52-4	1,1-Biphenyl	48.8		0.91	4.00	5.00	ug/L
91-58-7	2-Chloronaphthalene	47.0		0.97	4.00	5.00	ug/L
88-74-4	2-Nitroaniline	49.2		1.40	4.00	5.00	ug/L
131-11-3	Dimethylphthalate	50.0		0.93	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:	PB166117BS	SDG No.:	Q1122
Lab Sample ID:	PB166117BS	Matrix:	Water
Analytical Method:	SW8270	% 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
BF141218.D	1	01/17/25 11:40	01/20/25 13:15	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
208-96-8	Acenaphthylene	51.3		1.00	4.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	48.7		1.20	4.00	5.00	ug/L
99-09-2	3-Nitroaniline	30.0		1.40	4.00	5.00	ug/L
83-32-9	Acenaphthene	55.1		0.81	4.00	5.00	ug/L
51-28-5	2,4-Dinitrophenol	120	E	6.40	8.00	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.00	8.00	10.0	ug/L
132-64-9	Dibenzofuran	48.8		0.93	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	51.6		1.50	4.00	5.00	ug/L
84-66-2	Diethylphthalate	49.5		1.00	4.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	49.0		0.98	4.00	5.00	ug/L
86-73-7	Fluorene	49.0		0.96	4.00	5.00	ug/L
100-01-6	4-Nitroaniline	49.6		2.00	4.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	60.4		3.10	8.00	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	50.4		0.89	4.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	50.9		0.95	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	51.4		1.10	4.00	5.00	ug/L
1912-24-9	Atrazine	64.3		1.30	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	8.00	10.0	ug/L
85-01-8	Phenanthrene	51.6		0.89	4.00	5.00	ug/L
120-12-7	Anthracene	53.6		1.10	4.00	5.00	ug/L
86-74-8	Carbazole	51.3		1.20	4.00	5.00	ug/L
84-74-2	Di-n-butylphthalate	52.2		1.50	4.00	5.00	ug/L
206-44-0	Fluoranthene	53.3		1.30	4.00	5.00	ug/L
129-00-0	Pyrene	46.0		1.10	4.00	5.00	ug/L
85-68-7	Butylbenzylphthalate	53.8		2.10	4.00	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	29.2		1.30	8.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	47.4		0.94	4.00	5.00	ug/L
218-01-9	Chrysene	49.7		0.86	4.00	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	54.2		1.90	4.00	5.00	ug/L
117-84-0	Di-n-octyl phthalate	53.3		2.50	8.00	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	54.7		1.10	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:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166117BS	SDG No.:	Q1122
Lab Sample ID:	PB166117BS	Matrix:	Water
Analytical Method:	SW8270	% 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
BF141218.D	1	01/17/25 11:40	01/20/25 13:15	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	49.8		1.20	4.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	55.2		1.70	4.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.4		1.00	4.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	48.8		1.20	4.00	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	44.9		1.20	4.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	49.3		1.10	4.00	5.00	ug/L
123-91-1	1,4-Dioxane	41.3		1.30	4.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	51.8		0.79	4.00	5.00	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	136		19 - 119		91%	SPK: 150
13127-88-3	Phenol-d6	135		10 - 130		90%	SPK: 150
4165-60-0	Nitrobenzene-d5	94.7		44 - 120		95%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.4		44 - 119		95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	157		43 - 140		105%	SPK: 150
1718-51-0	Terphenyl-d14	96.5		50 - 134		97%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	162000	6.81				
1146-65-2	Naphthalene-d8	656000	8.092				
15067-26-2	Acenaphthene-d10	349000	9.845				
1517-22-2	Phenanthrene-d10	597000	11.333				
1719-03-5	Chrysene-d12	392000	13.974				
1520-96-3	Perylene-d12	342000	15.427				

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:	PB166117BSD	SDG No.:	Q1122
Lab Sample ID:	PB166117BSD	Matrix:	Water
Analytical Method:	SW8270	% 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
BF141219.D	1	01/17/25 11:40	01/20/25 13:41	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
100-52-7	Benzaldehyde	8.20	J	4.00	8.00	10.0	ug/L
108-95-2	Phenol	47.7		0.93	4.00	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	48.2		1.20	4.00	5.00	ug/L
95-57-8	2-Chlorophenol	51.1		0.71	4.00	5.00	ug/L
95-48-7	2-Methylphenol	50.5		1.10	4.00	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	46.7		1.40	4.00	5.00	ug/L
98-86-2	Acetophenone	48.3		1.10	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	47.8		1.20	8.00	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	48.4		1.50	2.50	2.50	ug/L
67-72-1	Hexachloroethane	47.8		1.00	4.00	5.00	ug/L
98-95-3	Nitrobenzene	46.1		1.30	4.00	5.00	ug/L
78-59-1	Isophorone	50.4		1.10	4.00	5.00	ug/L
88-75-5	2-Nitrophenol	53.3		2.00	4.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	59.3		1.50	4.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.9		1.00	4.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	50.9		0.88	4.00	5.00	ug/L
91-20-3	Naphthalene	48.1		1.00	4.00	5.00	ug/L
106-47-8	4-Chloroaniline	16.8		1.30	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	48.5		1.30	4.00	5.00	ug/L
105-60-2	Caprolactam	50.8		1.70	8.00	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	50.9		0.84	4.00	5.00	ug/L
91-57-6	2-Methylnaphthalene	49.6		1.10	4.00	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	190	E	5.00	8.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	52.5		0.89	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	50.4		1.00	4.00	5.00	ug/L
92-52-4	1,1-Biphenyl	48.9		0.91	4.00	5.00	ug/L
91-58-7	2-Chloronaphthalene	47.6		0.97	4.00	5.00	ug/L
88-74-4	2-Nitroaniline	49.5		1.40	4.00	5.00	ug/L
131-11-3	Dimethylphthalate	50.3		0.93	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:	PB166117BSD	SDG No.:	Q1122
Lab Sample ID:	PB166117BSD	Matrix:	Water
Analytical Method:	SW8270	% 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
BF141219.D	1	01/17/25 11:40	01/20/25 13:41	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
208-96-8	Acenaphthylene	52.1		1.00	4.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	48.7		1.20	4.00	5.00	ug/L
99-09-2	3-Nitroaniline	29.4		1.40	4.00	5.00	ug/L
83-32-9	Acenaphthene	55.9		0.81	4.00	5.00	ug/L
51-28-5	2,4-Dinitrophenol	120	E	6.40	8.00	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.00	8.00	10.0	ug/L
132-64-9	Dibenzofuran	49.6		0.93	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	51.7		1.50	4.00	5.00	ug/L
84-66-2	Diethylphthalate	49.8		1.00	4.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	49.4		0.98	4.00	5.00	ug/L
86-73-7	Fluorene	49.3		0.96	4.00	5.00	ug/L
100-01-6	4-Nitroaniline	51.2		2.00	4.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	60.8		3.10	8.00	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	50.2		0.89	4.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	51.2		0.95	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	51.6		1.10	4.00	5.00	ug/L
1912-24-9	Atrazine	63.9		1.30	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	8.00	10.0	ug/L
85-01-8	Phenanthrene	51.6		0.89	4.00	5.00	ug/L
120-12-7	Anthracene	54.1		1.10	4.00	5.00	ug/L
86-74-8	Carbazole	51.7		1.20	4.00	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.5		1.50	4.00	5.00	ug/L
206-44-0	Fluoranthene	53.3		1.30	4.00	5.00	ug/L
129-00-0	Pyrene	48.0		1.10	4.00	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.8		2.10	4.00	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	29.2		1.30	8.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	48.7		0.94	4.00	5.00	ug/L
218-01-9	Chrysene	49.8		0.86	4.00	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	55.1		1.90	4.00	5.00	ug/L
117-84-0	Di-n-octyl phthalate	52.2		2.50	8.00	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	48.8		1.10	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:	PB166117BSD	SDG No.:	Q1122
Lab Sample ID:	PB166117BSD	Matrix:	Water
Analytical Method:	SW8270	% 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
BF141219.D	1	01/17/25 11:40	01/20/25 13:41	PB166117

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	56.1		1.20	4.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	55.5		1.70	4.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	51.3		1.00	4.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	50.8		1.20	4.00	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	45.8		1.20	4.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	50.2		1.10	4.00	5.00	ug/L
123-91-1	1,4-Dioxane	40.5		1.30	4.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	53.4		0.79	4.00	5.00	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	134		19 - 119		90%	SPK: 150
13127-88-3	Phenol-d6	135		10 - 130		90%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.2		44 - 120		96%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.2		44 - 119		96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	160		43 - 140		106%	SPK: 150
1718-51-0	Terphenyl-d14	99.3		50 - 134		99%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	162000	6.81				
1146-65-2	Naphthalene-d8	634000	8.092				
15067-26-2	Acenaphthene-d10	339000	9.845				
1517-22-2	Phenanthrene-d10	583000	11.333				
1719-03-5	Chrysene-d12	370000	13.974				
1520-96-3	Perylene-d12	328000	15.427				

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-BF011025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jan 10 22:54:19 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141109.D 5 =BF141110.D 10 =BF141111.D 20 =BF141112.D 40 =BF141113.D 50 =BF141117.D 60 =BF141118.D 80 =BF1411
19.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.616	0.596	0.598	0.563	0.573	0.564	0.525	0.577	5.24
3)		Pyridine		1.579	1.520	1.486	1.360	1.364	1.346	1.242	1.414	8.34
4)		n-Nitrosodimet...		0.716	0.715	0.709	0.678	0.688	0.688	0.644	0.691	3.71
5)	S	2-Fluorophenol		1.453	1.400	1.378	1.248	1.236	1.227	1.121	1.295	9.11
6)		Aniline		1.656	1.583	1.561	1.424	1.385	1.360	1.222	1.456	10.39
7)	S	Phenol-d6		1.834	1.773	1.736	1.566	1.569	1.547	1.454	1.640	8.56
8)		2-Chlorophenol		1.561	1.476	1.458	1.345	1.338	1.321	1.225	1.389	8.20
9)		Benzaldehyde		1.215	1.139	1.040	0.849	0.782	0.771		0.966	19.81
10)	C	Phenol		1.943	1.902	1.861	1.701	1.665	1.668	1.548	1.756	8.38
11)		bis(2-Chloroet...		1.445	1.372	1.363	1.256	1.279	1.264	1.178	1.308	6.86
12)		1,3-Dichlorobe...		1.714	1.662	1.648	1.476	1.506	1.466	1.372	1.549	8.14
13)	C	1,4-Dichlorobe...		1.766	1.653	1.668	1.495	1.495	1.480	1.370	1.561	8.81
14)		1,2-Dichlorobe...		1.670	1.579	1.572	1.382	1.388	1.363	1.239	1.456	10.50
15)		Benzyl Alcohol		1.291	1.240	1.244	1.158	1.164	1.144	1.048	1.184	6.85
16)		2,2'-oxybis(1-...		2.046	1.913	1.939	1.766	1.746	1.730	1.640	1.826	7.82
17)		2-Methylphenol		1.209	1.175	1.182	1.088	1.091	1.077	1.027	1.121	6.00
18)		Hexachloroethane		0.610	0.591	0.595	0.548	0.551	0.550	0.507	0.565	6.35
19)	P	n-Nitroso-di-n...	1.062	1.068	1.011	1.009	0.906	0.915	0.902	0.854	0.966	8.40
20)		3+4-Methylphenols		1.631	1.529	1.527	1.375	1.342	1.319	1.180	1.415	10.93
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.539	0.516	0.507	0.445	0.455	0.449	0.417	0.475	9.43
23)	S	Nitrobenzene-d5		0.400	0.390	0.394	0.365	0.370	0.372	0.349	0.377	4.82
24)		Nitrobenzene		0.419	0.410	0.411	0.377	0.384	0.388	0.364	0.393	5.20
25)		Isophorone		0.692	0.668	0.674	0.617	0.629	0.628	0.605	0.645	5.09
26)	C	2-Nitrophenol		0.161	0.173	0.190	0.178	0.184	0.187	0.179	0.179	5.30
27)		2,4-Dimethylph...		0.252	0.244	0.250	0.236	0.239	0.238	0.229	0.241	3.27
28)		bis(2-Chloroet...		0.435	0.419	0.430	0.387	0.393	0.393	0.377	0.405	5.61
29)	C	2,4-Dichloroph...		0.296	0.296	0.300	0.277	0.286	0.284	0.266	0.287	4.31
30)		1,2,4-Trichlor...		0.356	0.344	0.348	0.314	0.317	0.316	0.299	0.328	6.49
31)		Naphthalene		1.178	1.126	1.131	0.998	1.023	0.997	0.929	1.055	8.60
32)		Benzoic acid		0.182	0.211	0.231	0.238	0.251	0.258	0.250	0.231	11.68
33)		4-Chloroaniline		0.397	0.390	0.386	0.345	0.349	0.355	0.331	0.365	7.09
34)	C	Hexachlorobuta...		0.213	0.207	0.208	0.188	0.194	0.191	0.180	0.197	6.17
35)		Caprolactam		0.096	0.092	0.099	0.091	0.094	0.094	0.091	0.094	3.00
36)	C	4-Chloro-3-met...		0.331	0.322	0.327	0.302	0.313	0.307	0.293	0.313	4.39
37)		2-Methylnaphth...		0.751	0.719	0.710	0.638	0.654	0.637	0.595	0.672	8.30
38)		1-Methylnaphth...		0.747	0.712	0.710	0.625	0.635	0.627	0.581	0.662	9.11

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF011025.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.632	0.601	0.604	0.554	0.552	0.554	0.520	0.574	6.83
41)	P	Hexachlorocycl...	0.170	0.181	0.201	0.200	0.189	0.191	0.182	0.188	5.74
42)	S	2,4,6-Tribromo...	0.233	0.233	0.235	0.219	0.230	0.226	0.220	0.228	2.96
43)	C	2,4,6-Trichlor...	0.399	0.384	0.412	0.380	0.382	0.377	0.377	0.387	3.37
44)		2,4,5-Trichlor...	0.429	0.419	0.418	0.401	0.411	0.407	0.377	0.409	4.07
45)	S	2-Fluorobiphenyl	1.582	1.459	1.408	1.225	1.224	1.176	1.094	1.310	13.42
46)		1,1'-Biphenyl	1.761	1.671	1.654	1.490	1.491	1.452	1.354	1.553	9.28
47)		2-Chloronaphth...	1.345	1.288	1.273	1.164	1.174	1.145	1.079	1.210	7.78
48)		2-Nitroaniline	0.360	0.358	0.365	0.351	0.365	0.365	0.347	0.359	2.04
49)		Acenaphthylene	1.915	1.820	1.830	1.660	1.678	1.654	1.540	1.728	7.54
50)		Dimethylphthalate	1.447	1.406	1.404	1.299	1.318	1.292	1.232	1.343	5.76
51)		2,6-Dinitrotol...	0.308	0.317	0.328	0.312	0.315	0.312	0.294	0.312	3.27
52)	C	Acenaphthene	1.317	1.267	1.274	1.165	1.185	1.160	1.086	1.208	6.69
53)		3-Nitroaniline	0.321	0.324	0.333	0.316	0.320	0.312	0.295	0.317	3.73
54)	P	2,4-Dinitrophenol		0.097	0.133	0.155	0.168	0.167	0.171	0.148	19.39
55)		Dibenzofuran	1.866	1.736	1.738	1.586	1.585	1.546	1.440	1.642	8.77
56)	P	4-Nitrophenol	0.224	0.241	0.255	0.250	0.264	0.258	0.248	0.248	5.29
57)		2,4-Dinitrotol...	0.372	0.401	0.423	0.395	0.424	0.411	0.390	0.402	4.69
58)		Fluorene	1.488	1.403	1.359	1.197	1.213	1.182	1.091	1.276	11.13
59)		2,3,4,6-Tetrac...	0.353	0.358	0.354	0.332	0.333	0.337	0.313	0.340	4.72
60)		Diethylphthalate	1.416	1.397	1.378	1.253	1.289	1.257	1.186	1.311	6.64
61)		4-Chlorophenyl...	0.709	0.672	0.663	0.594	0.593	0.584	0.540	0.622	9.65
62)		4-Nitroaniline	0.314	0.312	0.315	0.300	0.323	0.315	0.295	0.311	3.12
63)		Azobenzene	1.430	1.363	1.353	1.245	1.264	1.233	1.166	1.293	7.05
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.077	0.095	0.120	0.129	0.130	0.132	0.128	0.116	18.43
66)	c	n-Nitrosodiphe...	0.706	0.677	0.683	0.651	0.603	0.622	0.574	0.645	7.39
67)		4-Bromophenyl-...	0.241	0.237	0.238	0.232	0.220	0.229	0.215	0.230	4.20
68)		Hexachlorobenzene	0.273	0.263	0.266	0.257	0.244	0.252	0.239	0.256	4.81
69)		Atrazine	0.213	0.201	0.170	0.141	0.184	0.169	0.138	0.174	16.26
70)	C	Pentachlorophenol	0.142	0.162	0.171	0.173	0.169	0.171	0.160	0.164	6.59
71)		Phenanthrene	1.218	1.152	1.122	1.064	1.014	1.012	0.935	1.074	8.98
72)		Anthracene	1.162	1.111	1.095	1.042	0.994	0.997	0.908	1.044	8.22
73)		Carbazole	1.052	1.025	1.011	0.944	0.935	0.901	0.833	0.957	8.09
74)		Di-n-butylphth...	1.186	1.177	1.139	1.087	1.079	1.043	0.958	1.096	7.33
75)	C	Fluoranthene	1.211	1.188	1.104	1.037	1.051	0.987	0.923	1.071	9.70
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.380	0.309	0.310	0.409	0.340	0.418	0.430	0.371	13.83
78)		Pyrene	1.952	1.977	2.081	1.848	1.839	1.955	1.720	1.910	6.14
79)	S	Terphenyl-d14	1.444	1.424	1.483	1.272	1.280	1.352	1.164	1.346	8.44
80)		Butylbenzylpht...	0.583	0.629	0.663	0.614	0.677	0.669	0.623	0.637	5.39
81)		Benzo(a)anthra...	1.473	1.420	1.427	1.245	1.329	1.367	1.266	1.361	6.28
82)		3,3'-Dichlorob...	0.434	0.422	0.444	0.418	0.426	0.441	0.448	0.433	2.72
83)		Chrysene	1.382	1.316	1.336	1.207	1.237	1.238	1.200	1.274	5.54
84)		Bis(2-ethylhex...	0.734	0.768	0.807	0.726	0.819	0.783	0.712	0.764	5.41
85)	c	Di-n-octyl pht...	0.950	1.039	1.169	1.151	1.235	1.244	1.291	1.154	10.51

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF011025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.472	1.420	1.558	1.472	1.421	1.539	1.374	1.465	4.55
88)		Benzo(b)fluora...	1.461	1.415	1.290	1.201	1.315	1.191	1.156	1.290	9.03
89)		Benzo(k)fluora...	1.128	1.102	1.141	1.043	1.038	1.103	1.074	1.090	3.67
90)	C	Benzo(a)pyrene	1.103	1.090	1.095	1.039	1.048	1.067	1.007	1.064	3.29
91)		Dibenzo(a,h)an...	1.174	1.178	1.262	1.197	1.150	1.247	1.088	1.185	4.95
92)		Benzo(g,h,i)pe...	1.256	1.221	1.347	1.263	1.195	1.296	1.051	1.233	7.65

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1122 SAS No.: Q1122 SDG No.: Q1122

Instrument ID: BNA_F Calibration Date/Time: 01/20/2025 10:37

Lab File ID: BF141212.D Init. Calib. Date(s): 01/10/2025 01/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:58 17:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.295	1.234		-4.7	
Benzaldehyde	0.966	1.104		14.3	
Phenol-d6	1.640	1.572		-4.1	
Phenol	1.756	1.659		-5.5	20.0
bis(2-Chloroethyl)ether	1.308	1.256		-4.0	
2-Chlorophenol	1.389	1.356		-2.4	
2-Methylphenol	1.121	1.090		-2.8	
2,2-oxybis(1-Chloropropane)	1.826	1.644		-10.0	
Acetophenone	0.475	0.460		-3.2	
3+4-Methylphenols	1.415	1.363		-3.7	
n-Nitroso-di-n-propylamine	0.966	0.910	0.050	-5.8	
Nitrobenzene-d5	0.377	0.372		-1.3	
Hexachloroethane	0.565	0.552		-2.3	
Nitrobenzene	0.393	0.384		-2.3	
Isophorone	0.645	0.635		-1.5	
2-Nitrophenol	0.179	0.188		5.0	20.0
2,4-Dimethylphenol	0.241	0.238		-1.2	
bis(2-Chloroethoxy)methane	0.405	0.395		-2.5	
2,4-Dichlorophenol	0.287	0.291		1.4	20.0
Naphthalene	1.055	1.037		-1.7	
4-Chloroaniline	0.365	0.318		-12.9	
Hexachlorobutadiene	0.197	0.198		0.5	20.0
Caprolactam	0.094	0.094		0.0	
4-Chloro-3-methylphenol	0.313	0.319		1.9	20.0
2-Methylnaphthalene	0.672	0.666		-0.9	
Hexachlorocyclopentadiene	0.188	0.196	0.050	4.3	
2,4,6-Trichlorophenol	0.387	0.400		3.4	20.0
2-Fluorobiphenyl	1.310	1.265		-3.4	
2,4,5-Trichlorophenol	0.409	0.408		-0.2	
1,1-Biphenyl	1.553	1.513		-2.6	
2-Chloronaphthalene	1.210	1.184		-2.1	
2-Nitroaniline	0.359	0.356		-0.8	
Dimethylphthalate	1.343	1.332		-0.8	
Acenaphthylene	1.728	1.693		-2.0	
2,6-Dinitrotoluene	0.312	0.314		0.6	
3-Nitroaniline	0.317	0.321		1.3	
Acenaphthene	1.208	1.205		-0.2	20.0
2,4-Dinitrophenol	0.148	0.172	0.050	16.2	
4-Nitrophenol	0.248	0.262	0.050	5.6	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1122 SAS No.: Q1122 SDG No.: Q1122

Instrument ID: BNA_F Calibration Date/Time: 01/20/2025 10:37

Lab File ID: BF141212.D Init. Calib. Date(s): 01/10/2025 01/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:58 17:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.642	1.608		-2.1	
2,4-Dinitrotoluene	0.402	0.422		5.0	
Diethylphthalate	1.311	1.307		-0.3	
4-Chlorophenyl-phenylether	0.622	0.621		-0.2	
Fluorene	1.276	1.259		-1.3	
4-Nitroaniline	0.311	0.329		5.8	
4,6-Dinitro-2-methylphenol	0.116	0.140		20.7	
n-Nitrosodiphenylamine	0.645	0.637		-1.2	20.0
2,4,6-Tribromophenol	0.228	0.244		7.0	
4-Bromophenyl-phenylether	0.230	0.236		2.6	
Hexachlorobenzene	0.256	0.269		5.1	
Atrazine	0.174	0.199		14.4	
Pentachlorophenol	0.164	0.177		7.9	20.0
Phenanthrene	1.074	1.075		0.1	
Anthracene	1.044	1.064		1.9	
Carbazole	0.957	0.988		3.2	
Di-n-butylphthalate	1.096	1.156		5.5	
Fluoranthene	1.071	1.155		7.8	20.0
Pyrene	1.910	1.736		-9.1	
Terphenyl-d14	1.346	1.246		-7.4	
Butylbenzylphthalate	0.637	0.661		3.8	
3,3-Dichlorobenzidine	0.433	0.378		-12.7	
Benzo(a)anthracene	1.361	1.303		-4.3	
Chrysene	1.274	1.166		-8.5	
Bis(2-ethylhexyl)phthalate	0.764	0.793		3.8	
Di-n-octyl phthalate	1.154	1.147		-0.6	20.0
Benzo(b)fluoranthene	1.290	1.336		3.6	
Benzo(k)fluoranthene	1.090	1.084		-0.6	
Benzo(a)pyrene	1.064	1.069		0.5	20.0
Indeno(1,2,3-cd)pyrene	1.465	1.369		-6.6	
Dibenzo(a,h)anthracene	1.185	1.117		-5.7	
Benzo(g,h,i)perylene	1.233	1.134		-8.0	
1,2,4,5-Tetrachlorobenzene	0.574	0.569		-0.9	
1,4-Dioxane	0.577	0.544		-5.7	20.0
2,3,4,6-Tetrachlorophenol	0.340	0.349		2.6	

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.: Q1122 SAS No.: Q1122 SDG No.: Q1122

Instrument ID: BNA_F Calibration Date/Time: 01/20/2025 16:58

Lab File ID: BF141226.D Init. Calib. Date(s): 01/10/2025 01/10/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 11:58 17:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.295	1.230		-5.0	50.0
Benzaldehyde	0.966	1.176		21.7	50.0
Phenol-d6	1.640	1.569		-4.3	50.0
Phenol	1.756	1.658		-5.6	50.0
bis(2-Chloroethyl)ether	1.308	1.274		-2.6	50.0
2-Chlorophenol	1.389	1.351		-2.7	50.0
2-Methylphenol	1.121	1.085		-3.2	50.0
2,2-oxybis(1-Chloropropane)	1.826	1.656		-9.3	50.0
Acetophenone	0.475	0.458		-3.6	50.0
3+4-Methylphenols	1.415	1.331		-5.9	50.0
n-Nitroso-di-n-propylamine	0.966	0.912	0.050	-5.6	50.0
Nitrobenzene-d5	0.377	0.373		-1.1	50.0
Hexachloroethane	0.565	0.564		-0.2	50.0
Nitrobenzene	0.393	0.384		-2.3	50.0
Isophorone	0.645	0.633		-1.9	50.0
2-Nitrophenol	0.179	0.191		6.7	50.0
2,4-Dimethylphenol	0.241	0.235		-2.5	50.0
bis(2-Chloroethoxy)methane	0.405	0.405		0.0	50.0
2,4-Dichlorophenol	0.287	0.296		3.1	50.0
Naphthalene	1.055	1.038		-1.6	50.0
4-Chloroaniline	0.365	0.310		-15.1	50.0
Hexachlorobutadiene	0.197	0.203		3.0	50.0
Caprolactam	0.094	0.092		-2.1	50.0
4-Chloro-3-methylphenol	0.313	0.312		-0.3	50.0
2-Methylnaphthalene	0.672	0.666		-0.9	50.0
Hexachlorocyclopentadiene	0.188	0.194	0.050	3.2	50.0
2,4,6-Trichlorophenol	0.387	0.389		0.5	50.0
2-Fluorobiphenyl	1.310	1.257		-4.0	50.0
2,4,5-Trichlorophenol	0.409	0.411		0.5	50.0
1,1-Biphenyl	1.553	1.493		-3.9	50.0
2-Chloronaphthalene	1.210	1.166		-3.6	50.0
2-Nitroaniline	0.359	0.344		-4.2	50.0
Dimethylphthalate	1.343	1.304		-2.9	50.0
Acenaphthylene	1.728	1.651		-4.5	50.0
2,6-Dinitrotoluene	0.312	0.311		-0.3	50.0
3-Nitroaniline	0.317	0.298		-6.0	50.0
Acenaphthene	1.208	1.177		-2.6	50.0
2,4-Dinitrophenol	0.148	0.167	0.050	12.8	50.0
4-Nitrophenol	0.248	0.231	0.050	-6.9	50.0

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1122 SAS No.: Q1122 SDG No.: Q1122

Instrument ID: BNA_F Calibration Date/Time: 01/20/2025 16:58

Lab File ID: BF141226.D Init. Calib. Date(s): 01/10/2025 01/10/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 11:58 17:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.642	1.570		-4.4	50.0
2,4-Dinitrotoluene	0.402	0.407		1.2	50.0
Diethylphthalate	1.311	1.270		-3.1	50.0
4-Chlorophenyl-phenylether	0.622	0.618		-0.6	50.0
Fluorene	1.276	1.219		-4.5	50.0
4-Nitroaniline	0.311	0.293		-5.8	50.0
4,6-Dinitro-2-methylphenol	0.116	0.141		21.6	50.0
n-Nitrosodiphenylamine	0.645	0.658		2.0	50.0
2,4,6-Tribromophenol	0.228	0.235		3.1	50.0
4-Bromophenyl-phenylether	0.230	0.244		6.1	50.0
Hexachlorobenzene	0.256	0.274		7.0	50.0
Atrazine	0.174	0.198		13.8	50.0
Pentachlorophenol	0.164	0.176		7.3	50.0
Phenanthrene	1.074	1.078		0.4	50.0
Anthracene	1.044	1.048		0.4	50.0
Carbazole	0.957	0.937		-2.1	50.0
Di-n-butylphthalate	1.096	1.144		4.4	50.0
Fluoranthene	1.071	1.059		-1.1	50.0
Pyrene	1.910	1.911		0.1	50.0
Terphenyl-d14	1.346	1.362		1.2	50.0
Butylbenzylphthalate	0.637	0.666		4.6	50.0
3,3-Dichlorobenzidine	0.433	0.428		-1.2	50.0
Benzo(a)anthracene	1.361	1.289		-5.3	50.0
Chrysene	1.274	1.233		-3.2	50.0
Bis(2-ethylhexyl)phthalate	0.764	0.785		2.7	50.0
Di-n-octyl phthalate	1.154	1.216		5.4	50.0
Benzo(b)fluoranthene	1.290	1.184		-8.2	50.0
Benzo(k)fluoranthene	1.090	1.058		-2.9	50.0
Benzo(a)pyrene	1.064	1.040		-2.3	50.0
Indeno(1,2,3-cd)pyrene	1.465	1.455		-0.7	50.0
Dibenzo(a,h)anthracene	1.185	1.189		0.3	50.0
Benzo(g,h,i)perylene	1.233	1.230		-0.2	50.0
1,2,4,5-Tetrachlorobenzene	0.574	0.565		-1.6	50.0
1,4-Dioxane	0.577	0.525		-9.0	50.0
2,3,4,6-Tetrachlorophenol	0.340	0.331		-2.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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LAB CHRONICLE

OrderID:	Q1122	**OrderDate:**	1/17/2025 8:43:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	E11,M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1122-01	**RW10A-20250116**	**WATER**			**01/16/25**			**01/16/25**
			PCB	8082A		01/17/25	01/20/25	
			Pesticide-TCL	8081B		01/17/25	01/20/25	

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1122 **Order ID:** Q1122

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 :

Total Concentration: **0.000**

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:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-01	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	490 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093705.D	1	01/17/25 11:25	01/20/25 13:28	PB166101

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.026	U	0.0062	0.026	0.051	ug/L
319-85-7	beta-BHC	0.026	U	0.014	0.026	0.051	ug/L
319-86-8	delta-BHC	0.026	U	0.015	0.026	0.051	ug/L
58-89-9	gamma-BHC (Lindane)	0.026	U	0.0050	0.026	0.051	ug/L
76-44-8	Heptachlor	0.026	U	0.0055	0.026	0.051	ug/L
309-00-2	Aldrin	0.026	U	0.0045	0.026	0.051	ug/L
1024-57-3	Heptachlor epoxide	0.026	U	0.0092	0.026	0.051	ug/L
959-98-8	Endosulfan I	0.026	U	0.0051	0.026	0.051	ug/L
60-57-1	Dieldrin	0.026	U	0.0048	0.026	0.051	ug/L
72-55-9	4,4-DDE	0.026	U	0.0046	0.026	0.051	ug/L
72-20-8	Endrin	0.010	U	0.0044	0.010	0.051	ug/L
33213-65-9	Endosulfan II	0.026	U	0.0077	0.026	0.051	ug/L
72-54-8	4,4-DDD	0.026	U	0.0094	0.026	0.051	ug/L
1031-07-8	Endosulfan Sulfate	0.026	U	0.0036	0.026	0.051	ug/L
50-29-3	4,4-DDT	0.026	U	0.0045	0.026	0.051	ug/L
72-43-5	Methoxychlor	0.026	U	0.011	0.026	0.051	ug/L
53494-70-5	Endrin ketone	0.026	U	0.0099	0.026	0.051	ug/L
7421-93-4	Endrin aldehyde	0.026	U	0.010	0.026	0.051	ug/L
5103-71-9	alpha-Chlordane	0.026	U	0.0061	0.026	0.051	ug/L
5103-74-2	gamma-Chlordane	0.026	U	0.0061	0.026	0.051	ug/L
8001-35-2	Toxaphene	0.51	U	0.15	0.51	1.00	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	23.0		30 - 135		115%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.3		44 - 124		106%	SPK: 20

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-01	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	490 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093705.D	1	01/17/25 11:25	01/20/25 13:28	PB166101

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

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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

Surrogate Summary

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL093481.D	PIBLK-PL093481.D	Decachlorobiphenyl	1	20	22.0	110		30	135
		Tetrachloro-m-xylene	1	20	20.5	102		44	124
		Decachlorobiphenyl	2	20	21.4	107		30	135
		Tetrachloro-m-xylene	2	20	19.9	100		44	124
I.BLK-PL093694.D	PIBLK-PL093694.D	Decachlorobiphenyl	1	20	21.9	110		30	135
		Tetrachloro-m-xylene	1	20	21.7	109		44	124
		Decachlorobiphenyl	2	20	19.4	97		30	135
		Tetrachloro-m-xylene	2	20	21.5	107		44	124
PB166101BL	PB166101BL	Decachlorobiphenyl	1	20	22.2	111		30	135
		Tetrachloro-m-xylene	1	20	20.0	100		44	124
		Decachlorobiphenyl	2	20	21.1	105		30	135
		Tetrachloro-m-xylene	2	20	19.2	96		44	124
PB166101BS	PB166101BS	Decachlorobiphenyl	1	20	20.4	102		30	135
		Tetrachloro-m-xylene	1	20	18.4	92		44	124
		Decachlorobiphenyl	2	20	19.7	99		30	135
		Tetrachloro-m-xylene	2	20	17.9	90		44	124
PB166101BSD	PB166101BSD	Decachlorobiphenyl	1	20	20.4	102		30	135
		Tetrachloro-m-xylene	1	20	18.1	90		44	124
		Decachlorobiphenyl	2	20	19.7	99		30	135
		Tetrachloro-m-xylene	2	20	17.3	87		44	124
Q1122-01	RW10A-20250116	Decachlorobiphenyl	1	20	23.0	115		30	135
		Tetrachloro-m-xylene	1	20	21.0	105		44	124
		Decachlorobiphenyl	2	20	22.8	114		30	135
		Tetrachloro-m-xylene	2	20	21.3	106		44	124
I.BLK-PL093706.D	PIBLK-PL093706.D	Decachlorobiphenyl	1	20	23.3	117		30	135
		Tetrachloro-m-xylene	1	20	21.6	108		44	124
		Decachlorobiphenyl	2	20	23.0	115		30	135
		Tetrachloro-m-xylene	2	20	21.1	105		44	124

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8081B **Datafile :** PL093702.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166101BS	alpha-BHC	0.5	0.49	ug/L	97				54	138	
	beta-BHC	0.5	0.50	ug/L	100				56	136	
	delta-BHC	0.5	0.48	ug/L	95				52	142	
	gamma-BHC (Lindane)	0.5	0.48	ug/L	96				59	134	
	Heptachlor	0.5	0.49	ug/L	98				54	130	
	Aldrin	0.5	0.47	ug/L	95				45	134	
	Heptachlor epoxide	0.5	0.48	ug/L	97				61	133	
	Endosulfan I	0.5	0.51	ug/L	101				62	126	
	Dieldrin	0.5	0.50	ug/L	100				60	136	
	4,4'-DDE	0.5	0.51	ug/L	102				57	135	
	Endrin	0.5	0.50	ug/L	100				60	138	
	Endosulfan II	0.5	0.53	ug/L	105				52	135	
	4,4'-DDD	0.5	0.55	ug/L	109				56	143	
	Endosulfan sulfate	0.5	0.51	ug/L	103				62	133	
	4,4'-DDT	0.5	0.51	ug/L	102				51	143	
	Methoxychlor	0.5	0.48	ug/L	97				54	145	
	Endrin ketone	0.5	0.52	ug/L	105				58	134	
	Endrin aldehyde	0.5	0.50	ug/L	100				51	132	
	alpha-Chlordane	0.5	0.50	ug/L	100				60	129	
	gamma-Chlordane	0.5	0.51	ug/L	101				56	136	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8081B **Datafile :** PL093703.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166101BSD	alpha-BHC	0.5	0.47	ug/L	93	4			54	138	20
	beta-BHC	0.5	0.48	ug/L	96	4			56	136	20
	delta-BHC	0.5	0.47	ug/L	93	2			52	142	20
	gamma-BHC (Lindane)	0.5	0.46	ug/L	92	4			59	134	20
	Heptachlor	0.5	0.48	ug/L	95	3			54	130	20
	Aldrin	0.5	0.46	ug/L	91	4			45	134	20
	Heptachlor epoxide	0.5	0.47	ug/L	94	3			61	133	20
	Endosulfan I	0.5	0.49	ug/L	98	3			62	126	20
	Dieldrin	0.5	0.49	ug/L	98	2			60	136	20
	4,4'-DDE	0.5	0.49	ug/L	99	3			57	135	20
	Endrin	0.5	0.49	ug/L	98	2			60	138	20
	Endosulfan II	0.5	0.52	ug/L	104	1			52	135	20
	4,4'-DDD	0.5	0.54	ug/L	107	2			56	143	20
	Endosulfan sulfate	0.5	0.51	ug/L	102	1			62	133	20
	4,4'-DDT	0.5	0.50	ug/L	100	2			51	143	20
	Methoxychlor	0.5	0.48	ug/L	96	1			54	145	20
	Endrin ketone	0.5	0.52	ug/L	104	1			58	134	20
	Endrin aldehyde	0.5	0.49	ug/L	99	1			51	132	20
	alpha-Chlordane	0.5	0.49	ug/L	97	3			60	129	20
	gamma-Chlordane	0.5	0.49	ug/L	98	3			56	136	20

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166101BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1122 SAS No.: Q1122 SDG NO.: Q1122

Lab Sample ID: PB166101BL Lab File ID: PL093701.D

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 01/17/2025

Date Analyzed (1): 01/20/2025 Date Analyzed (2): 01/20/2025

Time Analyzed (1): 12:22 Time Analyzed (2): 12:22

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB166101BS	PB166101BS	PL093702.D	01/20/2025	01/20/2025
PB166101BSD	PB166101BSD	PL093703.D	01/20/2025	01/20/2025
RW10A-20250116	Q1122-01	PL093705.D	01/20/2025	01/20/2025

COMMENTS:

QC 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:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166101BL	SDG No.:	Q1122
Lab Sample ID:	PB166101BL	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093701.D	1	01/17/25 11:25	01/20/25 12:22	PB166101

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.025	U	0.0061	0.025	0.050	ug/L
319-85-7	beta-BHC	0.025	U	0.014	0.025	0.050	ug/L
319-86-8	delta-BHC	0.025	U	0.015	0.025	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.025	U	0.0049	0.025	0.050	ug/L
76-44-8	Heptachlor	0.025	U	0.0054	0.025	0.050	ug/L
309-00-2	Aldrin	0.025	U	0.0044	0.025	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.025	U	0.0090	0.025	0.050	ug/L
959-98-8	Endosulfan I	0.025	U	0.0050	0.025	0.050	ug/L
60-57-1	Dieldrin	0.025	U	0.0047	0.025	0.050	ug/L
72-55-9	4,4-DDE	0.025	U	0.0045	0.025	0.050	ug/L
72-20-8	Endrin	0.010	U	0.0043	0.010	0.050	ug/L
33213-65-9	Endosulfan II	0.025	U	0.0075	0.025	0.050	ug/L
72-54-8	4,4-DDD	0.025	U	0.0092	0.025	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.025	U	0.0035	0.025	0.050	ug/L
50-29-3	4,4-DDT	0.025	U	0.0044	0.025	0.050	ug/L
72-43-5	Methoxychlor	0.025	U	0.011	0.025	0.050	ug/L
53494-70-5	Endrin ketone	0.025	U	0.0097	0.025	0.050	ug/L
7421-93-4	Endrin aldehyde	0.025	U	0.0099	0.025	0.050	ug/L
5103-71-9	alpha-Chlordane	0.025	U	0.0060	0.025	0.050	ug/L
5103-74-2	gamma-Chlordane	0.025	U	0.0060	0.025	0.050	ug/L
8001-35-2	Toxaphene	0.20	J	0.15	0.50	1.00	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	22.2		30 - 135		111%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.0		44 - 124		100%	SPK: 20

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166101BL	SDG No.:	Q1122
Lab Sample ID:	PB166101BL	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093701.D	1	01/17/25 11:25	01/20/25 12:22	PB166101

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

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/23/24
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	12/23/24
Client Sample ID:	PIBLK-PL093481.D	SDG No.:	Q1122
Lab Sample ID:	I.BLK-PL093481.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093481.D	1		12/23/24	PL122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.025	U	0.0061	0.025	0.050	ug/L
319-85-7	beta-BHC	0.025	U	0.014	0.025	0.050	ug/L
319-86-8	delta-BHC	0.025	U	0.015	0.025	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.025	U	0.0049	0.025	0.050	ug/L
76-44-8	Heptachlor	0.025	U	0.0054	0.025	0.050	ug/L
309-00-2	Aldrin	0.025	U	0.0044	0.025	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.025	U	0.0090	0.025	0.050	ug/L
959-98-8	Endosulfan I	0.025	U	0.0050	0.025	0.050	ug/L
60-57-1	Dieldrin	0.025	U	0.0047	0.025	0.050	ug/L
72-55-9	4,4-DDE	0.025	U	0.0045	0.025	0.050	ug/L
72-20-8	Endrin	0.010	U	0.0043	0.010	0.050	ug/L
33213-65-9	Endosulfan II	0.025	U	0.0075	0.025	0.050	ug/L
72-54-8	4,4-DDD	0.025	U	0.0092	0.025	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.025	U	0.0035	0.025	0.050	ug/L
50-29-3	4,4-DDT	0.025	U	0.0044	0.025	0.050	ug/L
72-43-5	Methoxychlor	0.025	U	0.011	0.025	0.050	ug/L
53494-70-5	Endrin ketone	0.025	U	0.0097	0.025	0.050	ug/L
7421-93-4	Endrin aldehyde	0.025	U	0.0099	0.025	0.050	ug/L
5103-71-9	alpha-Chlordane	0.025	U	0.0060	0.025	0.050	ug/L
5103-74-2	gamma-Chlordane	0.025	U	0.0060	0.025	0.050	ug/L
8001-35-2	Toxaphene	0.50	U	0.15	0.50	1.00	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	22.0		30 - 135		110%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.5		44 - 124		102%	SPK: 20

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/23/24
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	12/23/24
Client Sample ID:	PIBLK-PL093481.D	SDG No.:	Q1122
Lab Sample ID:	I.BLK-PL093481.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093481.D	1		12/23/24	PL122324

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

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/20/25
Client Sample ID:	PIBLK-PL093694.D	SDG No.:	Q1122
Lab Sample ID:	I.BLK-PL093694.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093694.D	1		01/20/25	PL012025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.025	U	0.0061	0.025	0.050	ug/L
319-85-7	beta-BHC	0.025	U	0.014	0.025	0.050	ug/L
319-86-8	delta-BHC	0.025	U	0.015	0.025	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.025	U	0.0049	0.025	0.050	ug/L
76-44-8	Heptachlor	0.025	U	0.0054	0.025	0.050	ug/L
309-00-2	Aldrin	0.025	U	0.0044	0.025	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.025	U	0.0090	0.025	0.050	ug/L
959-98-8	Endosulfan I	0.025	U	0.0050	0.025	0.050	ug/L
60-57-1	Dieldrin	0.025	U	0.0047	0.025	0.050	ug/L
72-55-9	4,4-DDE	0.025	U	0.0045	0.025	0.050	ug/L
72-20-8	Endrin	0.010	U	0.0043	0.010	0.050	ug/L
33213-65-9	Endosulfan II	0.025	U	0.0075	0.025	0.050	ug/L
72-54-8	4,4-DDD	0.025	U	0.0092	0.025	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.025	U	0.0035	0.025	0.050	ug/L
50-29-3	4,4-DDT	0.025	U	0.0044	0.025	0.050	ug/L
72-43-5	Methoxychlor	0.025	U	0.011	0.025	0.050	ug/L
53494-70-5	Endrin ketone	0.025	U	0.0097	0.025	0.050	ug/L
7421-93-4	Endrin aldehyde	0.025	U	0.0099	0.025	0.050	ug/L
5103-71-9	alpha-Chlordane	0.025	U	0.0060	0.025	0.050	ug/L
5103-74-2	gamma-Chlordane	0.025	U	0.0060	0.025	0.050	ug/L
8001-35-2	Toxaphene	0.50	U	0.15	0.50	1.00	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	21.9		30 - 135		110%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.7		44 - 124		109%	SPK: 20

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/20/25
Client Sample ID:	PIBLK-PL093694.D	SDG No.:	Q1122
Lab Sample ID:	I.BLK-PL093694.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093694.D	1		01/20/25	PL012025

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

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/20/25
Client Sample ID:	PIBLK-PL093706.D	SDG No.:	Q1122
Lab Sample ID:	I.BLK-PL093706.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093706.D	1		01/20/25	PL012025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.025	U	0.0061	0.025	0.050	ug/L
319-85-7	beta-BHC	0.025	U	0.014	0.025	0.050	ug/L
319-86-8	delta-BHC	0.025	U	0.015	0.025	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.025	U	0.0049	0.025	0.050	ug/L
76-44-8	Heptachlor	0.025	U	0.0054	0.025	0.050	ug/L
309-00-2	Aldrin	0.025	U	0.0044	0.025	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.025	U	0.0090	0.025	0.050	ug/L
959-98-8	Endosulfan I	0.025	U	0.0050	0.025	0.050	ug/L
60-57-1	Dieldrin	0.025	U	0.0047	0.025	0.050	ug/L
72-55-9	4,4-DDE	0.025	U	0.0045	0.025	0.050	ug/L
72-20-8	Endrin	0.010	U	0.0043	0.010	0.050	ug/L
33213-65-9	Endosulfan II	0.025	U	0.0075	0.025	0.050	ug/L
72-54-8	4,4-DDD	0.025	U	0.0092	0.025	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.025	U	0.0035	0.025	0.050	ug/L
50-29-3	4,4-DDT	0.025	U	0.0044	0.025	0.050	ug/L
72-43-5	Methoxychlor	0.025	U	0.011	0.025	0.050	ug/L
53494-70-5	Endrin ketone	0.025	U	0.0097	0.025	0.050	ug/L
7421-93-4	Endrin aldehyde	0.025	U	0.0099	0.025	0.050	ug/L
5103-71-9	alpha-Chlordane	0.025	U	0.0060	0.025	0.050	ug/L
5103-74-2	gamma-Chlordane	0.025	U	0.0060	0.025	0.050	ug/L
8001-35-2	Toxaphene	0.50	U	0.15	0.50	1.00	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	23.3		30 - 135		117%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		44 - 124		108%	SPK: 20

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/20/25
Client Sample ID:	PIBLK-PL093706.D	SDG No.:	Q1122
Lab Sample ID:	I.BLK-PL093706.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093706.D	1		01/20/25	PL012025

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

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166101BS	SDG No.:	Q1122
Lab Sample ID:	PB166101BS	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093702.D	1	01/17/25 11:25	01/20/25 12:35	PB166101

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.49		0.0061	0.025	0.050	ug/L
319-85-7	beta-BHC	0.50		0.014	0.025	0.050	ug/L
319-86-8	delta-BHC	0.48		0.015	0.025	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.48		0.0049	0.025	0.050	ug/L
76-44-8	Heptachlor	0.49		0.0054	0.025	0.050	ug/L
309-00-2	Aldrin	0.47		0.0044	0.025	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.48		0.0090	0.025	0.050	ug/L
959-98-8	Endosulfan I	0.51		0.0050	0.025	0.050	ug/L
60-57-1	Dieldrin	0.50		0.0047	0.025	0.050	ug/L
72-55-9	4,4-DDE	0.51		0.0045	0.025	0.050	ug/L
72-20-8	Endrin	0.50		0.0043	0.010	0.050	ug/L
33213-65-9	Endosulfan II	0.53		0.0075	0.025	0.050	ug/L
72-54-8	4,4-DDD	0.55		0.0092	0.025	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.51		0.0035	0.025	0.050	ug/L
50-29-3	4,4-DDT	0.51		0.0044	0.025	0.050	ug/L
72-43-5	Methoxychlor	0.48		0.011	0.025	0.050	ug/L
53494-70-5	Endrin ketone	0.52		0.0097	0.025	0.050	ug/L
7421-93-4	Endrin aldehyde	0.50		0.0099	0.025	0.050	ug/L
5103-71-9	alpha-Chlordane	0.50		0.0060	0.025	0.050	ug/L
5103-74-2	gamma-Chlordane	0.51		0.0060	0.025	0.050	ug/L
8001-35-2	Toxaphene	0.50	U	0.15	0.50	1.00	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	20.4		30 - 135		102%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.4		44 - 124		92%	SPK: 20

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166101BS	SDG No.:	Q1122
Lab Sample ID:	PB166101BS	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093702.D	1	01/17/25 11:25	01/20/25 12:35	PB166101

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

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166101BSD	SDG No.:	Q1122
Lab Sample ID:	PB166101BSD	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093703.D	1	01/17/25 11:25	01/20/25 13:01	PB166101

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.47		0.0061	0.025	0.050	ug/L
319-85-7	beta-BHC	0.48		0.014	0.025	0.050	ug/L
319-86-8	delta-BHC	0.47		0.015	0.025	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.46		0.0049	0.025	0.050	ug/L
76-44-8	Heptachlor	0.48		0.0054	0.025	0.050	ug/L
309-00-2	Aldrin	0.46		0.0044	0.025	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.47		0.0090	0.025	0.050	ug/L
959-98-8	Endosulfan I	0.49		0.0050	0.025	0.050	ug/L
60-57-1	Dieldrin	0.49		0.0047	0.025	0.050	ug/L
72-55-9	4,4-DDE	0.49		0.0045	0.025	0.050	ug/L
72-20-8	Endrin	0.49		0.0043	0.010	0.050	ug/L
33213-65-9	Endosulfan II	0.52		0.0075	0.025	0.050	ug/L
72-54-8	4,4-DDD	0.54		0.0092	0.025	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.51		0.0035	0.025	0.050	ug/L
50-29-3	4,4-DDT	0.50		0.0044	0.025	0.050	ug/L
72-43-5	Methoxychlor	0.48		0.011	0.025	0.050	ug/L
53494-70-5	Endrin ketone	0.52		0.0097	0.025	0.050	ug/L
7421-93-4	Endrin aldehyde	0.49		0.0099	0.025	0.050	ug/L
5103-71-9	alpha-Chlordane	0.49		0.0060	0.025	0.050	ug/L
5103-74-2	gamma-Chlordane	0.49		0.0060	0.025	0.050	ug/L
8001-35-2	Toxaphene	0.50	U	0.15	0.50	1.00	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	20.4		30 - 135		102%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.1		44 - 124		90%	SPK: 20

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166101BSD	SDG No.:	Q1122
Lab Sample ID:	PB166101BSD	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093703.D	1	01/17/25 11:25	01/20/25 13:01	PB166101

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

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Instrument ID: ECD_L **Calibration Date(s):** 12/23/2024 12/23/2024

Calibration Times: 13:15 14:09

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL093484.D RT 075 = PL093485.D

RT 050 = PL093486.D RT 025 = PL093487.D RT 005 = PL093488.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
4,4'-DDE	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
4,4'-DDT	7.03	7.03	7.03	7.02	7.02	7.02	6.92	7.12
Aldrin	5.26	5.26	5.26	5.26	5.26	5.26	5.16	5.36
alpha-BHC	4.00	4.00	4.00	4.00	4.00	4.00	3.90	4.10
alpha-Chlordane	6.02	6.02	6.02	6.02	6.02	6.02	5.92	6.12
beta-BHC	4.53	4.53	4.53	4.53	4.53	4.53	4.43	4.63
Decachlorobiphenyl	9.06	9.06	9.06	9.05	9.05	9.06	8.96	9.16
delta-BHC	4.78	4.78	4.78	4.77	4.77	4.77	4.67	4.87
Dieldrin	6.35	6.35	6.35	6.35	6.35	6.35	6.25	6.45
Endosulfan I	6.07	6.07	6.07	6.07	6.07	6.07	5.97	6.17
Endosulfan II	6.80	6.80	6.80	6.80	6.79	6.80	6.70	6.90
Endosulfan sulfate	7.16	7.16	7.16	7.16	7.16	7.16	7.06	7.26
Endrin	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Endrin aldehyde	6.93	6.93	6.93	6.92	6.92	6.92	6.82	7.02
Endrin ketone	7.65	7.65	7.65	7.64	7.64	7.64	7.54	7.74
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
gamma-Chlordane	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Heptachlor	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Heptachlor epoxide	5.69	5.69	5.69	5.69	5.68	5.69	5.59	5.79
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Instrument ID: ECD_L **Calibration Date(s):** 12/23/2024 12/23/2024

Calibration Times: 13:15 14:09

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL093484.D RT 075 = PL093485.D

RT 050 = PL093486.D RT 025 = PL093487.D RT 005 = PL093488.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.79	5.79	5.79	5.79	5.79	5.79	5.69	5.89
4,4'-DDE	5.23	5.23	5.23	5.23	5.23	5.23	5.13	5.33
4,4'-DDT	6.04	6.04	6.04	6.04	6.04	6.04	5.94	6.14
Aldrin	4.23	4.23	4.23	4.23	4.23	4.23	4.13	4.33
alpha-BHC	3.28	3.28	3.28	3.28	3.28	3.28	3.18	3.38
alpha-Chlordane	5.04	5.04	5.04	5.04	5.04	5.04	4.94	5.14
beta-BHC	3.91	3.91	3.91	3.91	3.91	3.91	3.81	4.01
Decachlorobiphenyl	7.91	7.91	7.91	7.91	7.91	7.91	7.81	8.01
delta-BHC	4.14	4.14	4.14	4.14	4.14	4.14	4.04	4.24
Dieldrin	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Endosulfan I	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Endosulfan II	5.94	5.93	5.93	5.93	5.93	5.93	5.83	6.03
Endosulfan sulfate	6.34	6.34	6.34	6.34	6.34	6.34	6.24	6.44
Endrin	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Endrin aldehyde	6.11	6.11	6.11	6.11	6.11	6.11	6.01	6.21
Endrin ketone	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
gamma-BHC (Lindane)	3.61	3.61	3.61	3.61	3.61	3.61	3.51	3.71
gamma-Chlordane	4.98	4.98	4.98	4.98	4.98	4.98	4.88	5.08
Heptachlor	3.95	3.95	3.95	3.95	3.95	3.95	3.85	4.05
Heptachlor epoxide	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Methoxychlor	6.61	6.61	6.61	6.61	6.61	6.61	6.51	6.71
Tetrachloro-m-xylene	2.78	2.78	2.78	2.78	2.78	2.78	2.68	2.88

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Instrument ID: ECD_L

Calibration Date(s): 12/23/2024 12/23/2024

Calibration Times: 13:15 14:09

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL093484.D **CF 075 =** PL093485.D

CF 050 = PL093486.D **CF 025 =** PL093487.D **CF 005 =** PL093488.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	1621940000	1601100000	1685020000	1757890000	2113830000	1755960000	12
4,4'-DDE	2097720000	2040360000	2142990000	2234520000	2703690000	2243860000	12
4,4'-DDT	1736630000	1688550000	1784110000	1855870000	2177460000	1848520000	10
Aldrin	2739480000	2644310000	2770490000	2873720000	3516330000	2908860000	12
alpha-BHC	3477660000	3206020000	3340110000	3364880000	3873240000	3452380000	7
alpha-Chlordane	2320790000	2264920000	2384480000	2497660000	3046700000	2502910000	13
beta-BHC	1321620000	1298650000	1378880000	1446620000	1762170000	1441590000	13
Decachlorobiphenyl	1661260000	1649170000	1775440000	1867730000	2291490000	1849020000	14
delta-BHC	3024560000	2885810000	2967810000	2997880000	3436900000	3062590000	7
Dieldrin	2323630000	2259870000	2374580000	2480210000	3037140000	2495090000	13
Endosulfan I	2169790000	2119850000	2246090000	2359490000	2901070000	2359260000	13
Endosulfan II	2079450000	1967950000	2094960000	2244490000	2979500000	2273270000	18
Endosulfan sulfate	1819170000	1796010000	1919480000	2039270000	2521220000	2019030000	15
Endrin	1980610000	1930990000	2046720000	2145760000	2658130000	2152440000	14
Endrin aldehyde	1590580000	1583320000	1679660000	1797120000	2221970000	1774530000	15
Endrin ketone	2063700000	2025470000	2127570000	2251850000	2750680000	2243850000	13
gamma-BHC (Lindane)	3189620000	3052290000	3180150000	3224710000	3750380000	3279430000	8
gamma-Chlordane	2340050000	2281170000	2403320000	2499810000	3041090000	2513090000	12
Heptachlor	2746960000	2670120000	2802230000	2919950000	3502290000	2928310000	11
Heptachlor epoxide	2426470000	2365400000	2505620000	2624560000	3249710000	2634350000	14
Methoxychlor	902299000	897910000	965987000	1022970000	1209220000	999678000	13
Tetrachloro-m-xylene	2318290000	2256280000	2391520000	2493110000	2919250000	2475690000	11

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Instrument ID: ECD_L

Calibration Date(s): 12/23/2024 12/23/2024

Calibration Times: 13:15 14:09

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL093484.D **CF 075 =** PL093485.D

CF 050 = PL093486.D **CF 025 =** PL093487.D **CF 005 =** PL093488.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	2969360000	2852140000	2831690000	2714170000	2783370000	2830150000	3
4,4'-DDE	3832650000	3639420000	3656470000	3546590000	3711090000	3677240000	3
4,4'-DDT	3215060000	3041820000	3039820000	2905500000	2899310000	3020300000	4
Aldrin	4345680000	4106320000	4115460000	3936670000	4007300000	4102290000	4
alpha-BHC	4680470000	4391020000	4405830000	4157300000	4099330000	4346790000	5
alpha-Chlordane	3914230000	3727230000	3759980000	3681520000	3954030000	3807400000	3
beta-BHC	1797540000	1726560000	1774070000	1776440000	1912840000	1797490000	4
Decachlorobiphenyl	2956580000	2818470000	2885080000	2902790000	3366620000	2985910000	7
delta-BHC	4528040000	4258650000	4266310000	4044840000	4046510000	4228870000	5
Dieldrin	4043510000	3835610000	3838300000	3694190000	3857790000	3853880000	3
Endosulfan I	3574790000	3428030000	3460070000	3382390000	3624490000	3493950000	3
Endosulfan II	3311470000	3237660000	3254890000	3188220000	3252500000	3248950000	1
Endosulfan sulfate	3216080000	3076010000	3113450000	3066780000	3299740000	3154410000	3
Endrin	3457020000	3288270000	3315120000	3193900000	3287350000	3308330000	3
Endrin aldehyde	2707870000	2610810000	2655280000	2645600000	2845870000	2693090000	3
Endrin ketone	3680660000	3542340000	3618450000	3559240000	3801270000	3640390000	3
gamma-BHC (Lindane)	4493780000	4228750000	4260470000	4062450000	4051390000	4219370000	4
gamma-Chlordane	3989810000	3780300000	3791390000	3703680000	3999910000	3853020000	3
Heptachlor	4294490000	4097760000	4159520000	4029940000	4197880000	4155920000	2
Heptachlor epoxide	3890040000	3699480000	3757900000	3697650000	4098450000	3828700000	4
Methoxychlor	1579690000	1538710000	1589880000	1595910000	1744000000	1609640000	5
Tetrachloro-m-xylene	2947220000	2813690000	2902100000	2859340000	3033640000	2911200000	3

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Instrument ID: ECD_L **Date(s) Analyzed:** 12/23/2024 12/23/2024

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	6.24	6.14	6.34	22764900
		2	6.44	6.34	6.54	15272800
		3	7.06	6.96	7.16	73123800
		4	7.15	7.05	7.25	54576200
		5	7.93	7.83	8.03	41166400

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Instrument ID: ECD_L **Date(s) Analyzed:** 12/23/2024 12/23/2024

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	5.00	4.90	5.10	23243100
		2	5.33	5.23	5.43	22807400
		3	5.69	5.59	5.79	25158900
		4	6.60	6.50	6.70	81574800
		5	7.04	6.94	7.14	75247700

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Continuing Calib Date: 01/20/2025 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 09:18 **Initial Calibration Time(s):** 13:15 14:09

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.06	8.96	9.16	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.01
beta-BHC	4.53	4.53	4.43	4.63	0.00
delta-BHC	4.77	4.78	4.68	4.88	0.01
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.01
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.68	5.69	5.59	5.79	0.01
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.35	6.25	6.45	0.01
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.80	6.70	6.90	0.01
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.02	7.03	6.93	7.13	0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.65	7.55	7.75	0.01
Endrin aldehyde	6.92	6.93	6.83	7.03	0.01
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Continuing Calib Date: 01/20/2025 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 09:18 **Initial Calibration Time(s):** 13:15 14:09

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Aldrin	4.23	4.23	4.13	4.33	0.01
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.01
Endosulfan sulfate	6.34	6.34	6.24	6.44	0.00
4,4'-DDT	6.04	6.04	5.94	6.14	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.84	6.74	6.94	0.00
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL01 **Date Analyzed:** 01/20/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093696.D **Time Analyzed:** 09:18

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.709	6.611	6.811	54.950	50.000	9.9
4,4'-DDE	6.192	6.094	6.294	54.540	50.000	9.1
4,4'-DDT	7.023	6.925	7.125	52.940	50.000	5.9
Aldrin	5.257	5.159	5.359	54.320	50.000	8.6
alpha-BHC	3.995	3.897	4.097	54.630	50.000	9.3
alpha-Chlordane	6.018	5.920	6.120	53.040	50.000	6.1
beta-BHC	4.526	4.427	4.627	54.770	50.000	9.5
Decachlorobiphenyl	9.055	8.956	9.156	51.380	50.000	2.8
delta-BHC	4.773	4.675	4.875	56.090	50.000	12.2
Dieldrin	6.344	6.246	6.446	52.250	50.000	4.5
Endosulfan I	6.069	5.971	6.171	52.590	50.000	5.2
Endosulfan II	6.794	6.695	6.895	48.700	50.000	-2.6
Endosulfan sulfate	7.159	7.060	7.260	51.640	50.000	3.3
Endrin	6.574	6.475	6.675	50.760	50.000	1.5
Endrin aldehyde	6.924	6.826	7.026	51.170	50.000	2.3
Endrin ketone	7.643	7.545	7.745	51.750	50.000	3.5
gamma-BHC (Lindane)	4.327	4.229	4.429	55.380	50.000	10.8
gamma-Chlordane	5.939	5.841	6.041	52.690	50.000	5.4
Heptachlor	4.915	4.818	5.018	54.020	50.000	8.0
Heptachlor epoxide	5.683	5.586	5.786	53.050	50.000	6.1
Methoxychlor	7.500	7.400	7.600	53.310	50.000	6.6
Tetrachloro-m-xylene	3.539	3.442	3.642	53.940	50.000	7.9

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL01 **Date Analyzed:** 01/20/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093696.D **Time Analyzed:** 09:18

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.785	5.688	5.888	59.400	50.000	18.8
4,4'-DDE	5.231	5.133	5.333	56.910	50.000	13.8
4,4'-DDT	6.036	5.937	6.137	54.630	50.000	9.3
Aldrin	4.225	4.128	4.328	56.960	50.000	13.9
alpha-BHC	3.278	3.180	3.380	57.770	50.000	15.5
alpha-Chlordane	5.042	4.944	5.144	55.720	50.000	11.4
beta-BHC	3.908	3.810	4.010	57.160	50.000	14.3
Decachlorobiphenyl	7.911	7.812	8.012	51.060	50.000	2.1
delta-BHC	4.136	4.038	4.238	57.910	50.000	15.8
Dieldrin	5.362	5.264	5.464	55.890	50.000	11.8
Endosulfan I	5.098	5.000	5.200	56.110	50.000	12.2
Endosulfan II	5.932	5.834	6.034	56.610	50.000	13.2
Endosulfan sulfate	6.335	6.237	6.437	54.250	50.000	8.5
Endrin	5.638	5.540	5.740	55.140	50.000	10.3
Endrin aldehyde	6.112	6.013	6.213	54.790	50.000	9.6
Endrin ketone	6.840	6.742	6.942	54.250	50.000	8.5
gamma-BHC (Lindane)	3.608	3.510	3.710	57.510	50.000	15.0
gamma-Chlordane	4.978	4.880	5.080	56.100	50.000	12.2
Heptachlor	3.946	3.848	4.048	55.070	50.000	10.1
Heptachlor epoxide	4.728	4.630	4.830	55.340	50.000	10.7
Methoxychlor	6.610	6.512	6.712	51.220	50.000	2.4
Tetrachloro-m-xylene	2.776	2.677	2.877	56.460	50.000	12.9

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Continuing Calib Date: 01/20/2025 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 14:19 **Initial Calibration Time(s):** 13:15 14:09

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.06	8.96	9.16	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.53	4.53	4.43	4.63	0.00
delta-BHC	4.78	4.78	4.68	4.88	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.01
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.01
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.58	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.80	6.70	6.90	0.01
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.02	7.03	6.93	7.13	0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.65	7.55	7.75	0.01
Endrin aldehyde	6.93	6.93	6.83	7.03	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Continuing Calib Date: 01/20/2025 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 14:19 **Initial Calibration Time(s):** 13:15 14:09

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.01
Aldrin	4.23	4.23	4.13	4.33	0.01
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.01
Endosulfan sulfate	6.33	6.34	6.24	6.44	0.01
4,4'-DDT	6.04	6.04	5.94	6.14	0.01
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.84	6.74	6.94	0.00
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL02 **Date Analyzed:** 01/20/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093707.D **Time Analyzed:** 14:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.711	6.611	6.811	52.780	50.000	5.6
4,4'-DDE	6.194	6.094	6.294	51.170	50.000	2.3
4,4'-DDT	7.024	6.925	7.125	49.700	50.000	-0.6
Aldrin	5.258	5.159	5.359	50.490	50.000	1.0
alpha-BHC	3.997	3.897	4.097	50.180	50.000	0.4
alpha-Chlordane	6.020	5.920	6.120	50.180	50.000	0.4
beta-BHC	4.527	4.427	4.627	50.410	50.000	0.8
Decachlorobiphenyl	9.056	8.956	9.156	49.920	50.000	-0.2
delta-BHC	4.775	4.675	4.875	51.660	50.000	3.3
Dieldrin	6.345	6.246	6.446	49.620	50.000	-0.8
Endosulfan I	6.070	5.971	6.171	49.700	50.000	-0.6
Endosulfan II	6.794	6.695	6.895	46.600	50.000	-6.8
Endosulfan sulfate	7.159	7.060	7.260	49.490	50.000	-1.0
Endrin	6.575	6.475	6.675	48.570	50.000	-2.9
Endrin aldehyde	6.925	6.826	7.026	49.150	50.000	-1.7
Endrin ketone	7.644	7.545	7.745	50.150	50.000	0.3
gamma-BHC (Lindane)	4.329	4.229	4.429	50.910	50.000	1.8
gamma-Chlordane	5.941	5.841	6.041	49.910	50.000	-0.2
Heptachlor	4.917	4.818	5.018	50.540	50.000	1.1
Heptachlor epoxide	5.685	5.586	5.786	50.010	50.000	0.0
Methoxychlor	7.501	7.400	7.600	50.580	50.000	1.2
Tetrachloro-m-xylene	3.541	3.442	3.642	49.520	50.000	-1.0

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL02 **Date Analyzed:** 01/20/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093707.D **Time Analyzed:** 14:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.785	5.688	5.888	56.740	50.000	13.5
4,4'-DDE	5.230	5.133	5.333	53.040	50.000	6.1
4,4'-DDT	6.035	5.937	6.137	51.990	50.000	4.0
Aldrin	4.225	4.128	4.328	52.470	50.000	4.9
alpha-BHC	3.278	3.180	3.380	53.090	50.000	6.2
alpha-Chlordane	5.041	4.944	5.144	51.950	50.000	3.9
beta-BHC	3.907	3.810	4.010	52.560	50.000	5.1
Decachlorobiphenyl	7.910	7.812	8.012	51.660	50.000	3.3
delta-BHC	4.136	4.038	4.238	53.490	50.000	7.0
Dieldrin	5.361	5.264	5.464	52.340	50.000	4.7
Endosulfan I	5.097	5.000	5.200	51.810	50.000	3.6
Endosulfan II	5.932	5.834	6.034	53.950	50.000	7.9
Endosulfan sulfate	6.334	6.237	6.437	53.050	50.000	6.1
Endrin	5.637	5.540	5.740	51.990	50.000	4.0
Endrin aldehyde	6.111	6.013	6.213	52.670	50.000	5.3
Endrin ketone	6.839	6.742	6.942	53.330	50.000	6.7
gamma-BHC (Lindane)	3.607	3.510	3.710	53.020	50.000	6.0
gamma-Chlordane	4.978	4.880	5.080	52.110	50.000	4.2
Heptachlor	3.945	3.848	4.048	51.780	50.000	3.6
Heptachlor epoxide	4.728	4.630	4.830	51.410	50.000	2.8
Methoxychlor	6.610	6.512	6.712	51.530	50.000	3.1
Tetrachloro-m-xylene	2.775	2.677	2.877	52.000	50.000	4.0

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No. (PEM): PEM - PL093482.D **Date Analyzed:** 12/23/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 12:47

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.054	8.950	9.150	19.460	20.000	-2.7
Tetrachloro-m-xylene	3.541	3.490	3.590	19.200	20.000	-4.0
alpha-BHC	3.997	3.950	4.050	9.900	10.000	-1.0
beta-BHC	4.528	4.480	4.580	9.800	10.000	-2.0
gamma-BHC (Lindane)	4.329	4.280	4.380	9.720	10.000	-2.8
Endrin	6.575	6.500	6.650	42.660	50.000	-14.7
4,4'-DDT	7.025	6.950	7.100	85.450	100.000	-14.6
Methoxychlor	7.501	7.430	7.570	195.970	250.000	-21.6

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No. (PEM): PEM - PL093482.D **Date Analyzed:** 12/23/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 12:47

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.912	7.810	8.010	18.580	20.000	-7.1
Tetrachloro-m-xylene	2.777	2.730	2.830	18.650	20.000	-6.8
alpha-BHC	3.280	3.230	3.330	8.850	10.000	-11.5
beta-BHC	3.910	3.860	3.960	9.830	10.000	-1.7
gamma-BHC (Lindane)	3.609	3.560	3.660	8.480	10.000	-15.2
Endrin	5.639	5.570	5.710	44.360	50.000	-11.3
4,4'-DDT	6.038	5.970	6.110	99.160	100.000	-0.8
Methoxychlor	6.612	6.540	6.680	219.190	250.000	-12.3

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No. (PEM): PEM - PL093695.D **Date Analyzed:** 01/20/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:05

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.055	8.950	9.160	22.130	20.000	10.7
Tetrachloro-m-xylene	3.540	3.490	3.590	23.190	20.000	16.0
alpha-BHC	3.995	3.940	4.050	12.040	10.000	20.4
beta-BHC	4.526	4.480	4.580	12.800	10.000	28.0
gamma-BHC (Lindane)	4.328	4.280	4.380	12.070	10.000	20.7
Endrin	6.574	6.500	6.640	47.580	50.000	-4.8
4,4'-DDT	7.024	6.950	7.090	100.200	100.000	0.2
Methoxychlor	7.500	7.430	7.570	228.710	250.000	-8.5

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No. (PEM): PEM - PL093695.D **Date Analyzed:** 01/20/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:05

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.911	7.810	8.010	20.550	20.000	2.8
Tetrachloro-m-xylene	2.776	2.730	2.830	22.760	20.000	13.8
alpha-BHC	3.277	3.230	3.330	10.900	10.000	9.0
beta-BHC	3.908	3.860	3.960	12.260	10.000	22.6
gamma-BHC (Lindane)	3.608	3.560	3.660	10.570	10.000	5.7
Endrin	5.637	5.570	5.710	52.210	50.000	4.4
4,4'-DDT	6.036	5.970	6.110	112.910	100.000	12.9
Methoxychlor	6.610	6.540	6.680	233.340	250.000	-6.7

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Analytical Sequence

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Project: NWIRP Bethpage 112G08005-WE13 **Instrument ID:** ECD_L

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 12/23/2024 12/23/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	12/23/2024	12:34	PL093481.D	9.06	3.54
PEM	PEM	12/23/2024	12:47	PL093482.D	9.05	3.54
RESCHK	RESCHK	12/23/2024	13:01	PL093483.D	9.06	3.54
PSTDICC100	PSTDICC100	12/23/2024	13:15	PL093484.D	9.06	3.54
PSTDICC075	PSTDICC075	12/23/2024	13:28	PL093485.D	9.06	3.54
PSTDICC050	PSTDICC050	12/23/2024	13:42	PL093486.D	9.06	3.54
PSTDICC025	PSTDICC025	12/23/2024	13:55	PL093487.D	9.05	3.54
PSTDICC005	PSTDICC005	12/23/2024	14:09	PL093488.D	9.05	3.54
PCHLORICC500	PCHLORICC500	12/23/2024	14:50	PL093491.D	9.06	3.54
PTOXICC500	PTOXICC500	12/23/2024	15:58	PL093496.D	9.06	3.54
I.BLK	I.BLK	01/20/2025	08:51	PL093694.D	9.06	3.54
PEM	PEM	01/20/2025	09:05	PL093695.D	9.06	3.54
PSTDCCC050	PSTDCCC050	01/20/2025	09:18	PL093696.D	9.06	3.54
PB166101BL	PB166101BL	01/20/2025	12:22	PL093701.D	9.06	3.54
PB166101BS	PB166101BS	01/20/2025	12:35	PL093702.D	9.06	3.54
PB166101BSD	PB166101BSD	01/20/2025	13:01	PL093703.D	9.06	3.55
RW10A-20250116	Q1122-01	01/20/2025	13:28	PL093705.D	9.05	3.54
I.BLK	I.BLK	01/20/2025	13:50	PL093706.D	9.08	3.57
PSTDCCC050	PSTDCCC050	01/20/2025	14:19	PL093707.D	9.06	3.54

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Analytical Sequence

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Project: NWIRP Bethpage 112G08005-WE13 **Instrument ID:** ECD_L

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 12/23/2024 12/23/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	12/23/2024	12:34	PL093481.D	7.91	2.78
PEM	PEM	12/23/2024	12:47	PL093482.D	7.91	2.78
RESCHK	RESCHK	12/23/2024	13:01	PL093483.D	7.91	2.78
PSTDICC100	PSTDICC100	12/23/2024	13:15	PL093484.D	7.91	2.78
PSTDICC075	PSTDICC075	12/23/2024	13:28	PL093485.D	7.91	2.78
PSTDICC050	PSTDICC050	12/23/2024	13:42	PL093486.D	7.91	2.78
PSTDICC025	PSTDICC025	12/23/2024	13:55	PL093487.D	7.91	2.78
PSTDICC005	PSTDICC005	12/23/2024	14:09	PL093488.D	7.91	2.78
PCHLORICC500	PCHLORICC500	12/23/2024	14:50	PL093491.D	7.91	2.78
PTOXICC500	PTOXICC500	12/23/2024	15:58	PL093496.D	7.91	2.78
I.BLK	I.BLK	01/20/2025	08:51	PL093694.D	7.91	2.78
PEM	PEM	01/20/2025	09:05	PL093695.D	7.91	2.78
PSTDCCC050	PSTDCCC050	01/20/2025	09:18	PL093696.D	7.91	2.78
PB166101BL	PB166101BL	01/20/2025	12:22	PL093701.D	7.91	2.78
PB166101BS	PB166101BS	01/20/2025	12:35	PL093702.D	7.91	2.78
PB166101BSD	PB166101BSD	01/20/2025	13:01	PL093703.D	7.91	2.78
RW10A-20250116	Q1122-01	01/20/2025	13:28	PL093705.D	7.91	2.78
I.BLK	I.BLK	01/20/2025	13:50	PL093706.D	7.91	2.78
PSTDCCC050	PSTDCCC050	01/20/2025	14:19	PL093707.D	7.91	2.78

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166101BS

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Lab Sample ID: PB166101BS **Date(s) Analyzed:** 01/20/2025 01/20/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.79	6.74	6.84	0.46	14.1
	2	5.93	5.88	5.98	0.53	
4,4'-DDD	1	6.71	6.66	6.76	0.52	5.7
	2	5.79	5.74	5.84	0.55	
4,4'-DDT	1	7.02	6.97	7.07	0.50	1.9
	2	6.04	5.99	6.09	0.51	
Endrin aldehyde	1	6.92	6.87	6.97	0.47	6.4
	2	6.11	6.06	6.16	0.50	
Endosulfan sulfate	1	7.16	7.11	7.21	0.48	6.4
	2	6.33	6.28	6.38	0.51	
Methoxychlor	1	7.50	7.45	7.55	0.48	0.1
	2	6.61	6.56	6.66	0.48	
Endrin ketone	1	7.64	7.59	7.69	0.49	7.1
	2	6.84	6.79	6.89	0.52	
alpha-BHC	1	3.99	3.94	4.04	0.47	4.4
	2	3.28	3.23	3.33	0.49	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.46	3
	2	3.61	3.56	3.66	0.48	
Heptachlor	1	4.92	4.87	4.97	0.48	1.8
	2	3.95	3.90	4.00	0.49	
Aldrin	1	5.26	5.21	5.31	0.46	2.7
	2	4.23	4.18	4.28	0.47	
beta-BHC	1	4.53	4.48	4.58	0.48	3.2
	2	3.91	3.86	3.96	0.50	
delta-BHC	1	4.77	4.72	4.82	0.47	0.5
	2	4.14	4.09	4.19	0.48	
Heptachlor epoxide	1	5.68	5.63	5.73	0.47	3
	2	4.73	4.68	4.78	0.48	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB166101BS

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Lab Sample ID: PB166101BS **Date(s) Analyzed:** 01/20/2025 01/20/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan I	1	6.07	6.02	6.12	0.48	5.6
	2	5.10	5.05	5.15	0.51	
gamma-Chlordane	1	5.94	5.89	5.99	0.48	5
	2	4.98	4.93	5.03	0.51	
alpha-Chlordane	1	6.02	5.97	6.07	0.48	3.8
	2	5.04	4.99	5.09	0.50	
4,4'-DDE	1	6.19	6.14	6.24	0.50	2.4
	2	5.23	5.18	5.28	0.51	
Dieldrin	1	6.34	6.29	6.39	0.48	5.4
	2	5.36	5.31	5.41	0.50	
Endrin	1	6.57	6.52	6.62	0.46	8.6
	2	5.64	5.59	5.69	0.50	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB166101BSD

Contract: TETR06
Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122
Lab Sample ID: PB166101BSD **Date(s) Analyzed:** 01/20/2025 01/20/2025
Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L
GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.72	6.67	6.77	0.51	5.7
	2	5.79	5.74	5.84	0.54	
4,4'-DDT	1	7.03	6.98	7.08	0.49	1.9
	2	6.04	5.99	6.09	0.50	
Aldrin	1	5.26	5.21	5.31	0.45	0.7
	2	4.23	4.18	4.28	0.46	
4,4'-DDE	1	6.20	6.15	6.25	0.49	1.1
	2	5.23	5.18	5.28	0.49	
Endosulfan II	1	6.80	6.75	6.85	0.45	13.9
	2	5.93	5.88	5.98	0.52	
Endrin aldehyde	1	6.93	6.88	6.98	0.47	6
	2	6.11	6.06	6.16	0.49	
Endosulfan sulfate	1	7.16	7.11	7.21	0.48	6.2
	2	6.34	6.29	6.39	0.51	
Methoxychlor	1	7.51	7.46	7.56	0.48	0
	2	6.61	6.56	6.66	0.48	
Endrin ketone	1	7.65	7.60	7.70	0.49	6.3
	2	6.84	6.79	6.89	0.52	
alpha-BHC	1	4.00	3.95	4.05	0.45	2.5
	2	3.28	3.23	3.33	0.47	
gamma-BHC (Lindane)	1	4.34	4.29	4.39	0.45	1.1
	2	3.61	3.56	3.66	0.46	
Heptachlor	1	4.92	4.87	4.97	0.48	0.8
	2	3.95	3.90	4.00	0.47	
beta-BHC	1	4.53	4.48	4.58	0.47	2.5
	2	3.91	3.86	3.96	0.48	
delta-BHC	1	4.78	4.73	4.83	0.47	1.8
	2	4.14	4.09	4.19	0.46	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166101BSD

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Lab Sample ID: PB166101BSD **Date(s) Analyzed:** 01/20/2025 01/20/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Heptachlor epoxide	1	5.69	5.64	5.74	0.46	1
	2	4.73	4.68	4.78	0.47	
Endosulfan I	1	6.08	6.03	6.13	0.47	3.6
	2	5.10	5.05	5.15	0.49	
gamma-Chlordane	1	5.95	5.90	6.00	0.47	3.6
	2	4.98	4.93	5.03	0.49	
alpha-Chlordane	1	6.03	5.98	6.08	0.48	1.7
	2	5.04	4.99	5.09	0.49	
Dieldrin	1	6.35	6.30	6.40	0.47	3.6
	2	5.36	5.31	5.41	0.49	
Endrin	1	6.58	6.53	6.63	0.46	7.2
	2	5.64	5.59	5.69	0.49	

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LAB CHRONICLE

OrderID:	Q1122	**OrderDate:**	1/17/2025 8:43:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	E11,M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1122-01	**RW10A-20250116**	**WATER**			**01/16/25**			**01/16/25**
			PCB	8082A		01/17/25	01/20/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1122 **Order ID:** Q1122

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 :

Total Concentration: **0.000**

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-01	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	490 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069222.D	1	01/17/25 11:30	01/20/25 11:10	PB166124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.41	U	0.15	0.41	0.51	ug/L
11104-28-2	Aroclor-1221	0.41	U	0.23	0.41	0.51	ug/L
11141-16-5	Aroclor-1232	0.41	U	0.38	0.41	0.51	ug/L
53469-21-9	Aroclor-1242	0.41	U	0.16	0.41	0.51	ug/L
12672-29-6	Aroclor-1248	0.41	U	0.12	0.41	0.51	ug/L
11097-69-1	Aroclor-1254	0.41	U	0.11	0.41	0.51	ug/L
37324-23-5	Aroclor-1262	0.41	U	0.14	0.41	0.51	ug/L
11100-14-4	Aroclor-1268	0.41	U	0.12	0.41	0.51	ug/L
11096-82-5	Aroclor-1260	0.41	U	0.15	0.41	0.51	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.4		35 - 137		102%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.6		40 - 135		103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PP068914.D	PIBLK-PP068914.D	Tetrachloro-m-xylene	1	20	21.4	107		60	140
		Decachlorobiphenyl	1	20	23.6	118		60	140
		Tetrachloro-m-xylene	2	20	21.8	109		60	140
		Decachlorobiphenyl	2	20	22.9	115		60	140
I.BLK-PP069218.D	PIBLK-PP069218.D	Tetrachloro-m-xylene	1	20	18.2	91		60	140
		Decachlorobiphenyl	1	20	18.5	93		60	140
		Tetrachloro-m-xylene	2	20	17.0	85		60	140
		Decachlorobiphenyl	2	20	18.0	90		60	140
PB166124BL	PB166124BL	Tetrachloro-m-xylene	1	20	21.4	107		35	137
		Decachlorobiphenyl	1	20	21.5	107		40	135
		Tetrachloro-m-xylene	2	20	20.6	103		35	137
		Decachlorobiphenyl	2	20	20.3	101		40	135
PB166124BS	PB166124BS	Tetrachloro-m-xylene	1	20	21.9	110		35	137
		Decachlorobiphenyl	1	20	21.1	106		40	135
		Tetrachloro-m-xylene	2	20	20.8	104		35	137
		Decachlorobiphenyl	2	20	20.3	102		40	135
PB166124BSD	PB166124BSD	Tetrachloro-m-xylene	1	20	21.9	110		35	137
		Decachlorobiphenyl	1	20	21.6	108		40	135
		Tetrachloro-m-xylene	2	20	21.4	107		35	137
		Decachlorobiphenyl	2	20	20.9	105		40	135
Q1122-01	RW10A-20250116	Tetrachloro-m-xylene	1	20	20.4	102		35	137
		Decachlorobiphenyl	1	20	20.6	103		40	135
		Tetrachloro-m-xylene	2	20	19.4	97		35	137
		Decachlorobiphenyl	2	20	18.9	94		40	135
I.BLK-PP069233.D	PIBLK-PP069233.D	Tetrachloro-m-xylene	1	20	19.0	95		60	140
		Decachlorobiphenyl	1	20	18.7	94		60	140
		Tetrachloro-m-xylene	2	20	17.9	89		60	140
		Decachlorobiphenyl	2	20	17.7	88		60	140

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A **Datafile :** PP069220.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166124BS	AR1016	5	4.50	ug/L	90				46	129	
	AR1260	5	4.10	ug/L	82				45	134	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1122

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A **Datafile :** PP069221.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166124BSD	AR1016	5	4.60	ug/L	92	2			46	129	20
	AR1260	5	4.10	ug/L	82	0			45	134	20

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166124BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1122 SAS No.: Q1122 SDG NO.: Q1122

Lab Sample ID: PB166124BL Lab File ID: PP069219.D

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 01/17/2025

Date Analyzed (1): 01/20/2025 Date Analyzed (2): 01/20/2025

Time Analyzed (1): 10:21 Time Analyzed (2): 10:21

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB166124BS	PB166124BS	PP069220.D	01/20/2025	01/20/2025
PB166124BSD	PB166124BSD	PP069221.D	01/20/2025	01/20/2025
RW10A-20250116	Q1122-01	PP069222.D	01/20/2025	01/20/2025

COMMENTS:

CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Instrument ID: ECD_P **Calibration Date(s):** 01/06/2025 01/07/2025

Calibration Times: 19:57 03:16

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP068915.D RT 750 = PP068916.D

RT 500 = PP068917.D RT 250 = PP068918.D RT 050 = PP068919.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.83	5.83	5.83	5.83	5.83	5.83	5.73	5.93
Aroclor-1016-2	(2)	5.85	5.86	5.85	5.85	5.85	5.85	5.75	5.95
Aroclor-1016-3	(3)	5.92	5.92	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1016-4	(4)	6.02	6.02	6.02	6.02	6.02	6.02	5.92	6.12
Aroclor-1016-5	(5)	6.31	6.31	6.31	6.31	6.31	6.31	6.21	6.41
Aroclor-1260-1	(1)	7.43	7.43	7.43	7.43	7.43	7.43	7.33	7.53
Aroclor-1260-2	(2)	7.69	7.69	7.69	7.69	7.69	7.69	7.59	7.79
Aroclor-1260-3	(3)	8.05	8.05	8.05	8.05	8.05	8.05	7.95	8.15
Aroclor-1260-4	(4)	8.28	8.28	8.28	8.28	8.28	8.28	8.18	8.38
Aroclor-1260-5	(5)	8.61	8.61	8.61	8.61	8.61	8.61	8.51	8.71
Decachlorobiphenyl		10.52	10.53	10.52	10.52	10.53	10.52	10.42	10.62
Tetrachloro-m-xylene		4.67	4.67	4.67	4.67	4.67	4.67	4.57	4.77
Aroclor-1242-1	(1)	5.83	5.83	5.83	5.84	5.84	5.83	5.73	5.93
Aroclor-1242-2	(2)	5.86	5.86	5.86	5.86	5.86	5.86	5.76	5.96
Aroclor-1242-3	(3)	5.92	5.92	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1242-4	(4)	6.02	6.02	6.02	6.02	6.02	6.02	5.92	6.12
Aroclor-1242-5	(5)	6.75	6.75	6.75	6.75	6.75	6.75	6.65	6.85
Decachlorobiphenyl		10.53	10.52	10.53	10.53	10.53	10.53	10.43	10.63
Tetrachloro-m-xylene		4.67	4.67	4.67	4.67	4.67	4.67	4.57	4.77
Aroclor-1248-1	(1)	5.83	5.83	5.84	5.83	5.84	5.83	5.73	5.93
Aroclor-1248-2	(2)	6.10	6.11	6.11	6.11	6.11	6.11	6.01	6.21
Aroclor-1248-3	(3)	6.31	6.31	6.31	6.31	6.31	6.31	6.21	6.41
Aroclor-1248-4	(4)	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
Aroclor-1248-5	(5)	6.75	6.75	6.75	6.75	6.75	6.75	6.65	6.85
Decachlorobiphenyl		10.52	10.52	10.53	10.52	10.53	10.52	10.42	10.62
Tetrachloro-m-xylene		4.67	4.67	4.67	4.67	4.68	4.67	4.57	4.77
Aroclor-1254-1	(1)	6.69	6.69	6.69	6.69	6.69	6.69	6.59	6.79
Aroclor-1254-2	(2)	6.91	6.90	6.91	6.90	6.91	6.91	6.81	7.01
Aroclor-1254-3	(3)	7.27	7.27	7.27	7.27	7.27	7.27	7.17	7.37
Aroclor-1254-4	(4)	7.55	7.55	7.55	7.55	7.55	7.55	7.45	7.65
Aroclor-1254-5	(5)	7.97	7.97	7.97	7.97	7.97	7.97	7.87	8.07
Decachlorobiphenyl		10.52	10.52	10.52	10.52	10.53	10.52	10.42	10.62
Tetrachloro-m-xylene		4.67	4.67	4.67	4.67	4.67	4.67	4.57	4.77
Aroclor-1268-1	(1)	8.94	8.94	8.94	8.94	8.94	8.94	8.84	9.04
Aroclor-1268-2	(2)	9.04	9.04	9.04	9.04	9.04	9.04	8.94	9.14
Aroclor-1268-3	(3)	9.29	9.28	9.29	9.29	9.28	9.29	9.19	9.39
Aroclor-1268-4	(4)	9.72	9.72	9.72	9.72	9.72	9.72	9.62	9.82
Aroclor-1268-5	(5)	10.16	10.16	10.16	10.16	10.16	10.16	10.06	10.26

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.53	10.52	10.53	10.53	10.53	10.53	10.43	10.63
Tetrachloro-m-xylene	4.67	4.67	4.68	4.67	4.67	4.67	4.57	4.77

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Instrument ID: ECD_P **Calibration Date(s):** 01/06/2025 01/07/2025

Calibration Times: 19:57 03:16

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP068915.D RT 750 = PP068916.D

RT 500 = PP068917.D RT 250 = PP068918.D RT 050 = PP068919.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.09	5.09	5.09	5.09	5.09	5.09	4.99	5.19
Aroclor-1016-2	(2)	5.11	5.10	5.10	5.10	5.11	5.10	5.00	5.20
Aroclor-1016-3	(3)	5.29	5.28	5.28	5.28	5.28	5.28	5.18	5.38
Aroclor-1016-4	(4)	5.32	5.32	5.32	5.32	5.32	5.32	5.22	5.42
Aroclor-1016-5	(5)	5.54	5.54	5.54	5.54	5.54	5.54	5.44	5.64
Aroclor-1260-1	(1)	6.58	6.58	6.58	6.58	6.59	6.58	6.48	6.68
Aroclor-1260-2	(2)	6.77	6.77	6.77	6.77	6.77	6.77	6.67	6.87
Aroclor-1260-3	(3)	6.93	6.93	6.93	6.93	6.93	6.93	6.83	7.03
Aroclor-1260-4	(4)	7.40	7.40	7.40	7.40	7.40	7.40	7.30	7.50
Aroclor-1260-5	(5)	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
Decachlorobiphenyl		9.11	9.11	9.11	9.11	9.11	9.11	9.01	9.21
Tetrachloro-m-xylene		3.98	3.98	3.98	3.98	3.98	3.98	3.88	4.08
Aroclor-1242-1	(1)	5.09	5.08	5.08	5.09	5.09	5.09	4.99	5.19
Aroclor-1242-2	(2)	5.11	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Aroclor-1242-3	(3)	5.29	5.28	5.28	5.28	5.28	5.28	5.18	5.38
Aroclor-1242-4	(4)	5.37	5.37	5.37	5.37	5.37	5.37	5.27	5.47
Aroclor-1242-5	(5)	5.90	5.90	5.90	5.90	5.90	5.90	5.80	6.00
Decachlorobiphenyl		9.11	9.11	9.11	9.11	9.11	9.11	9.01	9.21
Tetrachloro-m-xylene		3.98	3.98	3.98	3.98	3.98	3.98	3.88	4.08
Aroclor-1248-1	(1)	5.09	5.08	5.09	5.09	5.09	5.09	4.99	5.19
Aroclor-1248-2	(2)	5.33	5.32	5.32	5.33	5.32	5.32	5.22	5.42
Aroclor-1248-3	(3)	5.37	5.37	5.37	5.37	5.37	5.37	5.27	5.47
Aroclor-1248-4	(4)	5.54	5.54	5.54	5.54	5.54	5.54	5.44	5.64
Aroclor-1248-5	(5)	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Decachlorobiphenyl		9.11	9.11	9.11	9.11	9.11	9.11	9.01	9.21
Tetrachloro-m-xylene		3.98	3.98	3.98	3.98	3.98	3.98	3.88	4.08
Aroclor-1254-1	(1)	5.90	5.90	5.90	5.90	5.90	5.90	5.80	6.00
Aroclor-1254-2	(2)	6.05	6.05	6.05	6.05	6.05	6.05	5.95	6.15
Aroclor-1254-3	(3)	6.45	6.45	6.45	6.45	6.45	6.45	6.35	6.55
Aroclor-1254-4	(4)	6.68	6.68	6.68	6.68	6.68	6.68	6.58	6.78
Aroclor-1254-5	(5)	7.10	7.10	7.10	7.10	7.10	7.10	7.00	7.20
Decachlorobiphenyl		9.11	9.11	9.11	9.11	9.11	9.11	9.01	9.21
Tetrachloro-m-xylene		3.98	3.98	3.98	3.98	3.98	3.98	3.88	4.08
Aroclor-1268-1	(1)	7.93	7.93	7.93	7.93	7.93	7.93	7.83	8.03
Aroclor-1268-2	(2)	7.99	7.99	7.99	7.99	7.99	7.99	7.89	8.09
Aroclor-1268-3	(3)	8.21	8.21	8.21	8.21	8.21	8.21	8.11	8.31
Aroclor-1268-4	(4)	8.51	8.51	8.51	8.51	8.51	8.51	8.41	8.61
Aroclor-1268-5	(5)	8.83	8.83	8.83	8.83	8.83	8.83	8.73	8.93

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	9.11	9.11	9.11	9.11	9.11	9.11	9.01	9.21
Tetrachloro-m-xylene	3.98	3.99	3.98	3.99	3.99	3.99	3.89	4.09

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Instrument ID: ECD_P **Calibration Date(s):** 01/06/2025 01/07/2025

Calibration Times: 19:57 03:16

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP068915.D **CF 750 =** PP068916.D

CF 500 = PP068917.D **CF 250 =** PP068918.D **CF 050 =** PP068919.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	40885041	42512889	44289716	47071260	49420440	44835869	8
Aroclor-1016-2	(2)	62798143	66870065	71355832	74463520	60581160	67213744	9
Aroclor-1016-3	(3)	38906215	41190977	43337062	44705104	42803280	42188528	5
Aroclor-1016-4	(4)	32017271	33989945	35396090	37112512	36407480	34984660	6
Aroclor-1016-5	(5)	31333269	33431283	34724498	36878872	36588000	34591184	7
Aroclor-1260-1	(1)	55297007	58192836	62922684	69154760	68099580	62733373	10
Aroclor-1260-2	(2)	67660862	71484929	76227518	82167320	81110380	75730202	8
Aroclor-1260-3	(3)	58632775	61433135	65701952	71094008	71146000	65601574	9
Aroclor-1260-4	(4)	59030440	62369265	66379830	72014688	71257740	66210393	8
Aroclor-1260-5	(5)	114116479	119881285	126090058	134301316	131412820	125160392	7
Decachlorobiphenyl		1023741880	1056425320	1121292880	1210658840	1170227200	1116469224	7
Tetrachloro-m-xylene		1326275610	1382087027	1468306860	1479335360	1300426400	1391286251	6
Aroclor-1242-1	(1)	34530888	35835835	38265986	39688008	36986960	37061535	5
Aroclor-1242-2	(2)	53812431	57030873	58285280	60713132	56990340	57366411	4
Aroclor-1242-3	(3)	33081940	34635303	35614556	36593920	32098720	34404888	5
Aroclor-1242-4	(4)	27124048	28554160	29011970	30535176	28553820	28755835	4
Aroclor-1242-5	(5)	28568682	30265879	31460328	34073560	32548420	31383374	7
Decachlorobiphenyl		1057852260	1096409133	1155210300	1246587680	1198216600	1150855195	7
Tetrachloro-m-xylene		1394590290	1447491667	1467964440	1549944240	1381835600	1448365247	5
Aroclor-1248-1	(1)	26695957	28363937	29113116	30696272	32268960	29427648	7
Aroclor-1248-2	(2)	39758611	41635612	43966204	45812740	44431240	43120881	6
Aroclor-1248-3	(3)	43369699	45590668	48109160	50175608	48642380	47177503	6
Aroclor-1248-4	(4)	48885695	51390620	54733604	57272840	56221120	53700776	7
Aroclor-1248-5	(5)	48278095	50482795	53357482	55918364	52049580	52017263	6
Decachlorobiphenyl		1066892850	1123847293	1166223560	1225696720	1209265600	1158385205	6
Tetrachloro-m-xylene		1361089130	1427544907	1477014820	1525467280	1364872200	1431197667	5
Aroclor-1254-1	(1)	49172649	49533699	53610608	58077532	55866960	53252290	7
Aroclor-1254-2	(2)	74069643	77837235	82015762	86380616	86228260	81306303	7
Aroclor-1254-3	(3)	74567235	77904277	81251544	85540744	83625320	80577824	5
Aroclor-1254-4	(4)	56677692	58857921	61471660	64793644	62695060	60899195	5
Aroclor-1254-5	(5)	58716523	62776568	66462096	67494376	64118280	63913569	5
Decachlorobiphenyl		1066838960	1102446147	1164362860	1216202280	1160296800	1142029409	5
Tetrachloro-m-xylene		1365775780	1425990440	1463637820	1512114920	1328566000	1419216992	5
Aroclor-1268-1	(1)	171965956	177687748	186682010	194675404	192886820	184779588	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	154222187	158538831	166288358	172425976	164689060	163232882	4
Aroclor-1268-3	(3)	132497790	136244848	143110640	148784080	145166140	141160700	5
Aroclor-1268-4	(4)	52619884	54911151	57926548	58342576	54828300	55725692	4
Aroclor-1268-5	(5)	378200294	382944067	400675634	416373980	405222020	396683199	4
Decachlorobiphenyl		1745780270	1802805640	1904368380	1971078840	1937468800	1872300386	5
Tetrachloro-m-xylene		1365175360	1389613933	1450454560	1456482120	1340302600	1400405715	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Instrument ID: ECD_P **Calibration Date(s):** 01/06/2025 01/07/2025

Calibration Times: 19:57 03:16

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP068915.D **CF 750 =** PP068916.D

CF 500 = PP068917.D **CF 250 =** PP068918.D **CF 050 =** PP068919.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	29491720	31871205	35002460	37188936	35609200	33832704	9
Aroclor-1016-2	(2)	43905696	46895139	51079918	59834124	49947760	50332527	12
Aroclor-1016-3	(3)	24591042	26218015	28467334	29753780	26453500	27096734	7
Aroclor-1016-4	(4)	21752440	23319543	25647084	27056044	25429040	24640830	9
Aroclor-1016-5	(5)	26864500	28975405	32107876	32642752	30388580	30195823	8
Aroclor-1260-1	(1)	50390605	53012508	58700244	62769480	61600300	57294627	9
Aroclor-1260-2	(2)	58350095	59819339	67189098	72555824	71470420	65876955	10
Aroclor-1260-3	(3)	56856247	58933307	66166408	70041080	69921440	64383696	10
Aroclor-1260-4	(4)	50536167	50055928	57211992	62777372	59480660	56012424	10
Aroclor-1260-5	(5)	113748686	110133253	122878600	134950020	132356860	122813484	9
Decachlorobiphenyl		1055952250	1078345120	1181870400	1328006000	1362385800	1201311914	12
Tetrachloro-m-xylene		921448750	960676413	1002945440	1051065280	944696000	976166377	5
Aroclor-1242-1	(1)	25904769	27693345	29421300	31654716	32061380	29347102	9
Aroclor-1242-2	(2)	38827344	40647475	42253498	45564736	43218900	42102391	6
Aroclor-1242-3	(3)	21506578	22670196	23486094	24288540	24384700	23267222	5
Aroclor-1242-4	(4)	22209738	23492983	24690230	25684072	25766040	24368613	6
Aroclor-1242-5	(5)	26270830	28162075	29282028	30515800	30936940	29033535	7
Decachlorobiphenyl		1065489030	1201310467	1161897160	1288078080	1369157600	1217186467	10
Tetrachloro-m-xylene		958809120	1008718787	1019527140	1074481240	990259000	1010359057	4
Aroclor-1248-1	(1)	20093138	22105341	23598424	24146056	25052820	22999156	8
Aroclor-1248-2	(2)	29632170	32533207	34508544	36839176	37195000	34141619	9
Aroclor-1248-3	(3)	31007140	33988465	35908688	37877684	37882320	35332859	8
Aroclor-1248-4	(4)	36296413	39507735	41759214	44484412	43761000	41161755	8
Aroclor-1248-5	(5)	34689161	38121964	39504132	41178700	39937060	38686203	6
Decachlorobiphenyl		1094465140	1151641293	1242326740	1360729280	1293380600	1228508611	9
Tetrachloro-m-xylene		941029690	986176773	1020381960	1054278600	985643400	997502085	4
Aroclor-1254-1	(1)	54013826	55348175	60179124	66113132	65004480	60131747	9
Aroclor-1254-2	(2)	47307501	48908441	53313688	59053240	58911200	53498814	10
Aroclor-1254-3	(3)	74830722	75469891	83014460	89549424	88739340	82320767	9
Aroclor-1254-4	(4)	41013798	41461259	45272902	49531452	47721160	45000114	8
Aroclor-1254-5	(5)	68187162	69945763	75883524	79998908	79038140	74610699	7
Decachlorobiphenyl		1087096440	1107415987	1209539480	1317992920	1429766000	1230362165	12
Tetrachloro-m-xylene		1009511300	1003719773	1056322440	1076595560	991234800	1027476775	4
Aroclor-1268-1	(1)	148439751	158177365	166475976	163027408	175252540	162274608	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	137898942	145673481	153326760	149568992	153368500	147967335	4
Aroclor-1268-3	(3)	122316439	129783148	136690276	135543656	139957980	132858300	5
Aroclor-1268-4	(4)	50957332	53350585	56471448	56057256	49474280	53262180	6
Aroclor-1268-5	(5)	371642320	386230217	400122764	389095000	402465320	389911124	3
Decachlorobiphenyl		1815118270	1907478640	2025499340	2052352080	2187263600	1997542386	7
Tetrachloro-m-xylene		980182400	966201333	1012184220	1043386960	1003939400	1001178863	3

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Instrument ID: ECD_P **Date(s) Analyzed:** 01/06/2025 01/07/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.87	4.77	4.97	17785200
		2	4.96	4.86	5.06	12871900
		3	5.04	4.94	5.14	38767800
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	5.04	4.94	5.14	29682400
		2	5.57	5.47	5.67	16809200
		3	5.86	5.76	5.96	31337200
		4	6.02	5.92	6.12	15643200
		5	6.11	6.01	6.21	12044900
Aroclor-1262	500	1	8.28	8.18	8.38	79133000
		2	8.62	8.52	8.72	144417000
		3	8.95	8.85	9.05	102560000
		4	9.04	8.94	9.14	83101200
		5	9.72	9.62	9.82	50821400

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Instrument ID: ECD_P **Date(s) Analyzed:** 01/06/2025 01/07/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.20	4.10	4.30	13491500
		2	4.29	4.19	4.39	10378200
		3	4.36	4.26	4.46	31049200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.36	4.26	4.46	24630800
		2	5.10	5.00	5.20	23918600
		3	5.28	5.18	5.38	12560200
		4	5.37	5.27	5.47	11992000
		5	5.54	5.44	5.64	12836200
Aroclor-1262	500	1	7.14	7.04	7.24	79852400
		2	7.40	7.30	7.50	69928200
		3	7.93	7.83	8.03	57593000
		4	7.99	7.89	8.09	100831000
		5	8.51	8.41	8.61	48819800

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Continuing Calib Date: 01/20/2025 **Initial Calibration Date(s):** 01/06/2025 01/07/2025

Continuing Calib Time: 09:00 **Initial Calibration Time(s):** 19:57 03:16

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.83	5.83	5.73	5.93	0.00
Aroclor-1016-2	(2)	5.85	5.85	5.75	5.95	0.00
Aroclor-1016-3	(3)	5.92	5.92	5.82	6.02	0.00
Aroclor-1016-4	(4)	6.01	6.02	5.92	6.12	0.01
Aroclor-1016-5	(5)	6.31	6.31	6.21	6.41	0.00
Aroclor-1260-1	(1)	7.43	7.43	7.33	7.53	0.00
Aroclor-1260-2	(2)	7.68	7.69	7.59	7.79	0.01
Aroclor-1260-3	(3)	8.04	8.05	7.95	8.15	0.01
Aroclor-1260-4	(4)	8.28	8.28	8.18	8.38	0.00
Aroclor-1260-5	(5)	8.61	8.61	8.51	8.71	0.00
Tetrachloro-m-xylene		4.67	4.67	4.57	4.77	0.00
Decachlorobiphenyl		10.52	10.52	10.42	10.62	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Continuing Calib Date: 01/20/2025 **Initial Calibration Date(s):** 01/06/2025 01/07/2025

Continuing Calib Time: 09:00 **Initial Calibration Time(s):** 19:57 03:16

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.08	5.09	4.99	5.19	0.01
Aroclor-1016-2	(2)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-3	(3)	5.28	5.28	5.18	5.38	0.00
Aroclor-1016-4	(4)	5.32	5.32	5.22	5.42	0.00
Aroclor-1016-5	(5)	5.54	5.54	5.44	5.64	0.00
Aroclor-1260-1	(1)	6.58	6.58	6.48	6.68	0.00
Aroclor-1260-2	(2)	6.77	6.77	6.67	6.87	0.01
Aroclor-1260-3	(3)	6.92	6.93	6.83	7.03	0.01
Aroclor-1260-4	(4)	7.40	7.40	7.30	7.50	0.01
Aroclor-1260-5	(5)	7.64	7.64	7.54	7.74	0.00
Tetrachloro-m-xylene		3.98	3.98	3.88	4.08	0.00
Decachlorobiphenyl		9.10	9.11	9.01	9.21	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/06/2025 01/06/2025

Client Sample No.: CCAL01 **Date Analyzed:** 01/20/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP069214.D **Time Analyzed:** 09:00

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.831	5.732	5.932	497.280	500.000	-0.5
Aroclor-1016-2	5.853	5.754	5.954	493.530	500.000	-1.3
Aroclor-1016-3	5.916	5.818	6.018	490.120	500.000	-2.0
Aroclor-1016-4	6.014	5.916	6.116	494.340	500.000	-1.1
Aroclor-1016-5	6.308	6.210	6.410	492.200	500.000	-1.6
Aroclor-1260-1	7.430	7.333	7.533	453.900	500.000	-9.2
Aroclor-1260-2	7.684	7.587	7.787	459.800	500.000	-8.0
Aroclor-1260-3	8.043	7.947	8.147	456.560	500.000	-8.7
Aroclor-1260-4	8.276	8.180	8.380	450.130	500.000	-10.0
Aroclor-1260-5	8.607	8.513	8.713	474.460	500.000	-5.1
Decachlorobiphenyl	10.515	10.424	10.624	45.130	50.000	-9.7
Tetrachloro-m-xylene	4.671	4.572	4.772	51.090	50.000	2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/06/2025 01/06/2025

Client Sample No.: CCAL01 **Date Analyzed:** 01/20/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP069214.D **Time Analyzed:** 09:00

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.081	4.985	5.185	499.750	500.000	-0.1
Aroclor-1016-2	5.100	5.004	5.204	486.420	500.000	-2.7
Aroclor-1016-3	5.280	5.184	5.384	503.910	500.000	0.8
Aroclor-1016-4	5.320	5.224	5.424	483.450	500.000	-3.3
Aroclor-1016-5	5.537	5.442	5.642	484.280	500.000	-3.1
Aroclor-1260-1	6.578	6.484	6.684	447.610	500.000	-10.5
Aroclor-1260-2	6.765	6.672	6.872	461.170	500.000	-7.8
Aroclor-1260-3	6.922	6.828	7.028	440.440	500.000	-11.9
Aroclor-1260-4	7.395	7.302	7.502	434.350	500.000	-13.1
Aroclor-1260-5	7.635	7.541	7.741	451.490	500.000	-9.7
Decachlorobiphenyl	9.101	9.011	9.211	43.710	50.000	-12.6
Tetrachloro-m-xylene	3.981	3.883	4.083	50.460	50.000	0.9

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Continuing Calib Date: 01/20/2025 **Initial Calibration Date(s):** 01/06/2025 01/07/2025

Continuing Calib Time: 15:32 **Initial Calibration Time(s):** 19:57 03:16

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.83	5.83	5.73	5.93	0.01
Aroclor-1016-2	(2)	5.85	5.85	5.75	5.95	0.00
Aroclor-1016-3	(3)	5.91	5.92	5.82	6.02	0.01
Aroclor-1016-4	(4)	6.01	6.02	5.92	6.12	0.01
Aroclor-1016-5	(5)	6.30	6.31	6.21	6.41	0.01
Aroclor-1260-1	(1)	7.43	7.43	7.33	7.53	0.00
Aroclor-1260-2	(2)	7.68	7.69	7.59	7.79	0.01
Aroclor-1260-3	(3)	8.04	8.05	7.95	8.15	0.01
Aroclor-1260-4	(4)	8.27	8.28	8.18	8.38	0.01
Aroclor-1260-5	(5)	8.60	8.61	8.51	8.71	0.01
Tetrachloro-m-xylene		4.67	4.67	4.57	4.77	0.00
Decachlorobiphenyl		10.50	10.52	10.42	10.62	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

Continuing Calib Date: 01/20/2025 **Initial Calibration Date(s):** 01/06/2025 01/07/2025

Continuing Calib Time: 15:32 **Initial Calibration Time(s):** 19:57 03:16

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.08	5.09	4.99	5.19	0.01
Aroclor-1016-2	(2)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-3	(3)	5.28	5.28	5.18	5.38	0.00
Aroclor-1016-4	(4)	5.32	5.32	5.22	5.42	0.00
Aroclor-1016-5	(5)	5.53	5.54	5.44	5.64	0.01
Aroclor-1260-1	(1)	6.58	6.58	6.48	6.68	0.01
Aroclor-1260-2	(2)	6.76	6.77	6.67	6.87	0.01
Aroclor-1260-3	(3)	6.92	6.93	6.83	7.03	0.01
Aroclor-1260-4	(4)	7.39	7.40	7.30	7.50	0.01
Aroclor-1260-5	(5)	7.63	7.64	7.54	7.74	0.01
Tetrachloro-m-xylene		3.98	3.98	3.88	4.08	0.00
Decachlorobiphenyl		9.10	9.11	9.01	9.21	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/06/2025 01/06/2025

Client Sample No.: CCAL02 **Date Analyzed:** 01/20/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP069229.D **Time Analyzed:** 15:32

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.825	5.732	5.932	482.550	500.000	-3.5
Aroclor-1016-2	5.847	5.754	5.954	500.800	500.000	0.2
Aroclor-1016-3	5.910	5.818	6.018	487.650	500.000	-2.5
Aroclor-1016-4	6.008	5.916	6.116	490.880	500.000	-1.8
Aroclor-1016-5	6.302	6.210	6.410	495.370	500.000	-0.9
Aroclor-1260-1	7.425	7.333	7.533	462.560	500.000	-7.5
Aroclor-1260-2	7.678	7.587	7.787	461.280	500.000	-7.7
Aroclor-1260-3	8.037	7.947	8.147	443.610	500.000	-11.3
Aroclor-1260-4	8.270	8.180	8.380	457.840	500.000	-8.4
Aroclor-1260-5	8.600	8.513	8.713	472.770	500.000	-5.4
Decachlorobiphenyl	10.503	10.424	10.624	45.750	50.000	-8.5
Tetrachloro-m-xylene	4.666	4.572	4.772	50.640	50.000	1.3

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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** Q1122 **SAS No.:** Q1122 **SDG NO.:** Q1122

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 01/06/2025 01/06/2025

Client Sample No.: CCAL02 **Date Analyzed:** 01/20/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP069229.D **Time Analyzed:** 15:32

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.077	4.985	5.185	484.470	500.000	-3.1
Aroclor-1016-2	5.097	5.004	5.204	465.170	500.000	-7.0
Aroclor-1016-3	5.276	5.184	5.384	497.370	500.000	-0.5
Aroclor-1016-4	5.316	5.224	5.424	473.090	500.000	-5.4
Aroclor-1016-5	5.534	5.442	5.642	450.430	500.000	-9.9
Aroclor-1260-1	6.575	6.484	6.684	420.560	500.000	-15.9
Aroclor-1260-2	6.762	6.672	6.872	434.700	500.000	-13.1
Aroclor-1260-3	6.918	6.828	7.028	404.100	500.000	-19.2
Aroclor-1260-4	7.391	7.302	7.502	393.810	500.000	-21.2
Aroclor-1260-5	7.631	7.541	7.741	404.540	500.000	-19.1
Decachlorobiphenyl	9.096	9.011	9.211	40.770	50.000	-18.5
Tetrachloro-m-xylene	3.978	3.883	4.083	48.120	50.000	-3.8

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

Analytical Sequence

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Project: NWIRP Bethpage 112G08005-WE13 **Instrument ID:** ECD_P

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 01/06/2025 01/06/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	01/06/2025	19:41	PP068914.D	10.52	4.67
AR1660ICC1000	AR1660ICC1000	01/06/2025	19:57	PP068915.D	10.52	4.67
AR1660ICC750	AR1660ICC750	01/06/2025	20:13	PP068916.D	10.53	4.67
AR1660ICC500	AR1660ICC500	01/06/2025	20:30	PP068917.D	10.52	4.67
AR1660ICC250	AR1660ICC250	01/06/2025	20:46	PP068918.D	10.52	4.67
AR1660ICC050	AR1660ICC050	01/06/2025	21:02	PP068919.D	10.53	4.67
AR1221ICC500	AR1221ICC500	01/06/2025	21:19	PP068920.D	10.53	4.67
AR1232ICC500	AR1232ICC500	01/06/2025	21:35	PP068921.D	10.52	4.67
AR1242ICC1000	AR1242ICC1000	01/06/2025	21:51	PP068922.D	10.53	4.67
AR1242ICC750	AR1242ICC750	01/06/2025	22:07	PP068923.D	10.52	4.67
AR1242ICC500	AR1242ICC500	01/06/2025	22:24	PP068924.D	10.53	4.67
AR1242ICC250	AR1242ICC250	01/06/2025	22:40	PP068925.D	10.53	4.67
AR1242ICC050	AR1242ICC050	01/06/2025	22:56	PP068926.D	10.53	4.67
AR1248ICC1000	AR1248ICC1000	01/06/2025	23:12	PP068927.D	10.52	4.67
AR1248ICC750	AR1248ICC750	01/06/2025	23:29	PP068928.D	10.52	4.67
AR1248ICC500	AR1248ICC500	01/06/2025	23:45	PP068929.D	10.53	4.67
AR1248ICC250	AR1248ICC250	01/07/2025	00:01	PP068930.D	10.52	4.67
AR1248ICC050	AR1248ICC050	01/07/2025	00:17	PP068931.D	10.53	4.68
AR1254ICC1000	AR1254ICC1000	01/07/2025	00:34	PP068932.D	10.52	4.67
AR1254ICC750	AR1254ICC750	01/07/2025	00:50	PP068933.D	10.52	4.67
AR1254ICC500	AR1254ICC500	01/07/2025	01:06	PP068934.D	10.52	4.67
AR1254ICC250	AR1254ICC250	01/07/2025	01:22	PP068935.D	10.52	4.67
AR1254ICC050	AR1254ICC050	01/07/2025	01:39	PP068936.D	10.53	4.67
AR1262ICC500	AR1262ICC500	01/07/2025	01:55	PP068937.D	10.53	4.68
AR1268ICC1000	AR1268ICC1000	01/07/2025	02:11	PP068938.D	10.53	4.67
AR1268ICC750	AR1268ICC750	01/07/2025	02:27	PP068939.D	10.52	4.67
AR1268ICC500	AR1268ICC500	01/07/2025	02:44	PP068940.D	10.53	4.68
AR1268ICC250	AR1268ICC250	01/07/2025	03:00	PP068941.D	10.53	4.67
AR1268ICC050	AR1268ICC050	01/07/2025	03:16	PP068942.D	10.53	4.67
AR1660CCC500	AR1660CCC500	01/20/2025	09:00	PP069214.D	10.52	4.67
I.BLK	I.BLK	01/20/2025	10:05	PP069218.D	10.51	4.67
PB166124BL	PB166124BL	01/20/2025	10:21	PP069219.D	10.51	4.67
PB166124BS	PB166124BS	01/20/2025	10:37	PP069220.D	10.51	4.67
PB166124BSD	PB166124BSD	01/20/2025	10:54	PP069221.D	10.51	4.67
RW10A-20250116	Q1122-01	01/20/2025	11:10	PP069222.D	10.51	4.67
AR1660CCC500	AR1660CCC500	01/20/2025	15:32	PP069229.D	10.50	4.67
I.BLK	I.BLK	01/20/2025	16:37	PP069233.D	10.51	4.67

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

Analytical Sequence

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Project: NWIRP Bethpage 112G08005-WE13 **Instrument ID:** ECD_P

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 01/06/2025 01/06/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	01/06/2025	19:41	PP068914.D	9.11	3.98
AR1660ICC1000	AR1660ICC1000	01/06/2025	19:57	PP068915.D	9.11	3.98
AR1660ICC750	AR1660ICC750	01/06/2025	20:13	PP068916.D	9.11	3.98
AR1660ICC500	AR1660ICC500	01/06/2025	20:30	PP068917.D	9.11	3.98
AR1660ICC250	AR1660ICC250	01/06/2025	20:46	PP068918.D	9.11	3.98
AR1660ICC050	AR1660ICC050	01/06/2025	21:02	PP068919.D	9.11	3.98
AR1221ICC500	AR1221ICC500	01/06/2025	21:19	PP068920.D	9.11	3.98
AR1232ICC500	AR1232ICC500	01/06/2025	21:35	PP068921.D	9.11	3.98
AR1242ICC1000	AR1242ICC1000	01/06/2025	21:51	PP068922.D	9.11	3.98
AR1242ICC750	AR1242ICC750	01/06/2025	22:07	PP068923.D	9.11	3.98
AR1242ICC500	AR1242ICC500	01/06/2025	22:24	PP068924.D	9.11	3.98
AR1242ICC250	AR1242ICC250	01/06/2025	22:40	PP068925.D	9.11	3.98
AR1242ICC050	AR1242ICC050	01/06/2025	22:56	PP068926.D	9.11	3.98
AR1248ICC1000	AR1248ICC1000	01/06/2025	23:12	PP068927.D	9.11	3.98
AR1248ICC750	AR1248ICC750	01/06/2025	23:29	PP068928.D	9.11	3.98
AR1248ICC500	AR1248ICC500	01/06/2025	23:45	PP068929.D	9.11	3.98
AR1248ICC250	AR1248ICC250	01/07/2025	00:01	PP068930.D	9.11	3.98
AR1248ICC050	AR1248ICC050	01/07/2025	00:17	PP068931.D	9.11	3.98
AR1254ICC1000	AR1254ICC1000	01/07/2025	00:34	PP068932.D	9.11	3.98
AR1254ICC750	AR1254ICC750	01/07/2025	00:50	PP068933.D	9.11	3.98
AR1254ICC500	AR1254ICC500	01/07/2025	01:06	PP068934.D	9.11	3.98
AR1254ICC250	AR1254ICC250	01/07/2025	01:22	PP068935.D	9.11	3.98
AR1254ICC050	AR1254ICC050	01/07/2025	01:39	PP068936.D	9.11	3.98
AR1262ICC500	AR1262ICC500	01/07/2025	01:55	PP068937.D	9.11	3.98
AR1268ICC1000	AR1268ICC1000	01/07/2025	02:11	PP068938.D	9.11	3.98
AR1268ICC750	AR1268ICC750	01/07/2025	02:27	PP068939.D	9.11	3.99
AR1268ICC500	AR1268ICC500	01/07/2025	02:44	PP068940.D	9.11	3.98
AR1268ICC250	AR1268ICC250	01/07/2025	03:00	PP068941.D	9.11	3.99
AR1268ICC050	AR1268ICC050	01/07/2025	03:16	PP068942.D	9.11	3.99
AR1660CCC500	AR1660CCC500	01/20/2025	09:00	PP069214.D	9.10	3.98
I.BLK	I.BLK	01/20/2025	10:05	PP069218.D	9.10	3.98
PB166124BL	PB166124BL	01/20/2025	10:21	PP069219.D	9.10	3.98
PB166124BS	PB166124BS	01/20/2025	10:37	PP069220.D	9.10	3.98
PB166124BSD	PB166124BSD	01/20/2025	10:54	PP069221.D	9.10	3.98
RW10A-20250116	Q1122-01	01/20/2025	11:10	PP069222.D	9.10	3.98
AR1660CCC500	AR1660CCC500	01/20/2025	15:32	PP069229.D	9.10	3.98
I.BLK	I.BLK	01/20/2025	16:37	PP069233.D	9.10	3.98

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:	PB166124BL	SDG No.:	Q1122
Lab Sample ID:	PB166124BL	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069219.D	1	01/17/25 11:30	01/20/25 10:21	PB166124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	21.4		35 - 137		107%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.5		40 - 135		107%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/06/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/06/25
Client Sample ID:	PIBLK-PP068914.D	SDG No.:	Q1122
Lab Sample ID:	I.BLK-PP068914.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP068914.D	1		01/06/25	PP010625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	21.4		60 - 140		107%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.9		60 - 140		115%	SPK: 20

Comments:

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N = Presumptive Evidence of a Compound
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/20/25
Client Sample ID:	PIBLK-PP069218.D	SDG No.:	Q1122
Lab Sample ID:	I.BLK-PP069218.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069218.D	1		01/20/25	PP012025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	17.0		60 - 140		85%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.0		60 - 140		90%	SPK: 20

Comments:

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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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:	01/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/20/25
Client Sample ID:	PIBLK-PP069233.D	SDG No.:	Q1122
Lab Sample ID:	I.BLK-PP069233.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069233.D	1		01/20/25	PP012025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	17.9		60 - 140		89%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.7		60 - 140		88%	SPK: 20

Comments:

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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166124BS	SDG No.:	Q1122
Lab Sample ID:	PB166124BS	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069220.D	1	01/17/25 11:30	01/20/25 10:37	PB166124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	4.50		0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	4.10		0.15	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	21.9		35 - 137		110%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.1		40 - 135		106%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166124BSD	SDG No.:	Q1122
Lab Sample ID:	PB166124BSD	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069221.D	1	01/17/25 11:30	01/20/25 10:54	PB166124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	4.60		0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	4.10		0.15	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	21.9		35 - 137		110%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.6		40 - 135		108%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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LAB CHRONICLE

OrderID:	Q1122	**OrderDate:**	1/17/2025 8:43:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	E11,M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1122-01	**RW10A-20250116**	**Water**			**01/16/25**			**01/16/25**
			Mercury	7470A		01/22/25	01/23/25	
			Metals ICP-TAL	6010D		01/21/25	01/21/25	
Q1122-02	**RW10A-F-20250116**	**Water**			**01/16/25**			**01/16/25**
			Dissolved ICP-TAL Metals	6010D		01/21/25	01/21/25	
			Dissolved Mercury	7470A		01/22/25	01/23/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1122 **Order ID:** Q1122

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 : RW10A-20250116									
Q1122-01	RW10A-20250116	Water	Aluminum	704		28.3	40.0	50.0	ug/L
Q1122-01	RW10A-20250116	Water	Barium	10.5	J	6.28	12.5	50.0	ug/L
Q1122-01	RW10A-20250116	Water	Beryllium	0.14	J	0.13	0.75	3.00	ug/L
Q1122-01	RW10A-20250116	Water	Calcium	9470		33.0	250	1000	ug/L
Q1122-01	RW10A-20250116	Water	Chromium	0.70	J	0.66	2.50	5.00	ug/L
Q1122-01	RW10A-20250116	Water	Cobalt	17.4		0.50	3.75	15.0	ug/L
Q1122-01	RW10A-20250116	Water	Copper	25.7		7.07	8.00	10.0	ug/L
Q1122-01	RW10A-20250116	Water	Iron	2190		18.5	40.0	50.0	ug/L
Q1122-01	RW10A-20250116	Water	Magnesium	3880		39.4	250	1000	ug/L
Q1122-01	RW10A-20250116	Water	Manganese	113		1.46	2.50	10.0	ug/L
Q1122-01	RW10A-20250116	Water	Nickel	18.4	J	0.85	5.00	20.0	ug/L
Q1122-01	RW10A-20250116	Water	Potassium	3090		685	800	1000	ug/L
Q1122-01	RW10A-20250116	Water	Silver	0.65	J	0.58	2.50	5.00	ug/L
Q1122-01	RW10A-20250116	Water	Sodium	47400		237	500	1000	ug/L
Q1122-01	RW10A-20250116	Water	Zinc	78.2		1.75	5.00	20.0	ug/L
Client ID : RW10A-F-20250116									
Q1122-02	RW10A-F-20250116	Water	Aluminum	696		28.3	40.0	50.0	ug/L
Q1122-02	RW10A-F-20250116	Water	Barium	10.2	J	6.28	12.5	50.0	ug/L
Q1122-02	RW10A-F-20250116	Water	Beryllium	0.14	J	0.13	0.75	3.00	ug/L
Q1122-02	RW10A-F-20250116	Water	Calcium	9420		33.0	250	1000	ug/L
Q1122-02	RW10A-F-20250116	Water	Cobalt	17.4		0.50	3.75	15.0	ug/L
Q1122-02	RW10A-F-20250116	Water	Copper	18.4		7.07	8.00	10.0	ug/L
Q1122-02	RW10A-F-20250116	Water	Iron	2190		18.5	40.0	50.0	ug/L
Q1122-02	RW10A-F-20250116	Water	Magnesium	3880		39.4	250	1000	ug/L
Q1122-02	RW10A-F-20250116	Water	Manganese	114		1.46	2.50	10.0	ug/L
Q1122-02	RW10A-F-20250116	Water	Nickel	18.5	J	0.85	5.00	20.0	ug/L
Q1122-02	RW10A-F-20250116	Water	Potassium	3030		685	800	1000	ug/L
Q1122-02	RW10A-F-20250116	Water	Sodium	47700		237	500	1000	ug/L
Q1122-02	RW10A-F-20250116	Water	Zinc	77.8		1.75	5.00	20.0	ug/L

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:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-01	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	704	N	1	28.3	40.0	50.0	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-36-0	Antimony	6.25	U	1	2.06	6.25	25.0	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-38-2	Arsenic	8.00	U	1	3.48	8.00	10.0	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-39-3	Barium	10.5	JN	1	6.28	12.5	50.0	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-41-7	Beryllium	0.14	JN	1	0.13	0.75	3.00	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-43-9	Cadmium	0.75	U	1	0.094	0.75	3.00	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-70-2	Calcium	9470		1	33.0	250	1000	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-47-3	Chromium	0.70	J	1	0.66	2.50	5.00	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-48-4	Cobalt	17.4		1	0.50	3.75	15.0	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-50-8	Copper	25.7		1	7.07	8.00	10.0	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7439-89-6	Iron	2190	N	1	18.5	40.0	50.0	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7439-92-1	Lead	4.80	U	1	3.51	4.80	6.00	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7439-95-4	Magnesium	3880	N	1	39.4	250	1000	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7439-96-5	Manganese	113	N	1	1.46	2.50	10.0	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7439-97-6	Mercury	0.16	U	1	0.081	0.16	0.20	ug/L	01/22/25 15:10	01/23/25 10:39	SW7470A	
7440-02-0	Nickel	18.4	J	1	0.85	5.00	20.0	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-09-7	Potassium	3090		1	685	800	1000	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7782-49-2	Selenium	8.00	U	1	5.88	8.00	10.0	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-22-4	Silver	0.65	J	1	0.58	2.50	5.00	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-23-5	Sodium	47400		1	237	500	1000	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-28-0	Thallium	10.0	U	1	2.32	10.0	20.0	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-62-2	Vanadium	10.0	UN	1	3.06	10.0	20.0	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010
7440-66-6	Zinc	78.2		1	1.75	5.00	20.0	ug/L	01/21/25 10:40	01/21/25 14:26	SW6010	SW3010

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

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

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

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:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-F-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-02	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	696	N	1	28.3	40.0	50.0	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-36-0	Antimony	6.25	U	1	2.06	6.25	25.0	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-38-2	Arsenic	8.00	U	1	3.48	8.00	10.0	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-39-3	Barium	10.2	JN	1	6.28	12.5	50.0	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-41-7	Beryllium	0.14	JN	1	0.13	0.75	3.00	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-43-9	Cadmium	0.75	U	1	0.094	0.75	3.00	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-70-2	Calcium	9420		1	33.0	250	1000	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-47-3	Chromium	2.50	U	1	0.66	2.50	5.00	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-48-4	Cobalt	17.4		1	0.50	3.75	15.0	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-50-8	Copper	18.4		1	7.07	8.00	10.0	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7439-89-6	Iron	2190	N	1	18.5	40.0	50.0	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7439-92-1	Lead	4.80	U	1	3.51	4.80	6.00	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7439-95-4	Magnesium	3880	N	1	39.4	250	1000	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7439-96-5	Manganese	114	N	1	1.46	2.50	10.0	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7439-97-6	Mercury	0.16	U	1	0.081	0.16	0.20	ug/L	01/22/25 15:10	01/23/25 10:42	SW7470A	
7440-02-0	Nickel	18.5	J	1	0.85	5.00	20.0	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-09-7	Potassium	3030		1	685	800	1000	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7782-49-2	Selenium	8.00	U	1	5.88	8.00	10.0	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-22-4	Silver	2.50	U	1	0.58	2.50	5.00	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-23-5	Sodium	47700		1	237	500	1000	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-28-0	Thallium	10.0	U	1	2.32	10.0	20.0	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-62-2	Vanadium	10.0	UN	1	3.06	10.0	20.0	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010
7440-66-6	Zinc	77.8		1	1.75	5.00	20.0	ug/L	01/21/25 10:40	01/21/25 14:30	SW6010	SW3010

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

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

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

METAL CALIBRATION DATA

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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
ICV66	Mercury	4.06	4.0	102	90 - 110	CV	01/23/2025	10:19	LB134375

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Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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
CCV62	Mercury	5.08	5.0	102	90 - 110	CV	01/23/2025	10:23	LB134375
CCV63	Mercury	5.17	5.0	103	90 - 110	CV	01/23/2025	10:56	LB134375
CCV64	Mercury	5.10	5.0	102	90 - 110	CV	01/23/2025	11:10	LB134375

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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	2400	2500	96	90 - 110	P	01/21/2025	11:26	LB134358
	Antimony	1020	1000	102	90 - 110	P	01/21/2025	11:26	LB134358
	Arsenic	1030	1000	103	90 - 110	P	01/21/2025	11:26	LB134358
	Barium	477	520	92	90 - 110	P	01/21/2025	11:26	LB134358
	Beryllium	485	510	95	90 - 110	P	01/21/2025	11:26	LB134358
	Cadmium	505	510	99	90 - 110	P	01/21/2025	11:26	LB134358
	Calcium	9610	10000	96	90 - 110	P	01/21/2025	11:26	LB134358
	Chromium	529	520	102	90 - 110	P	01/21/2025	11:26	LB134358
	Cobalt	509	520	98	90 - 110	P	01/21/2025	11:26	LB134358
	Copper	524	510	103	90 - 110	P	01/21/2025	11:26	LB134358
	Iron	10300	10000	103	90 - 110	P	01/21/2025	11:26	LB134358
	Lead	1010	1000	101	90 - 110	P	01/21/2025	11:26	LB134358
	Magnesium	5700	6000	95	90 - 110	P	01/21/2025	11:26	LB134358
	Manganese	494	520	95	90 - 110	P	01/21/2025	11:26	LB134358
	Nickel	511	530	96	90 - 110	P	01/21/2025	11:26	LB134358
	Potassium	10000	9900	101	90 - 110	P	01/21/2025	11:26	LB134358
	Selenium	1040	1000	104	90 - 110	P	01/21/2025	11:26	LB134358
	Silver	252	250	101	90 - 110	P	01/21/2025	11:26	LB134358
	Sodium	9990	10000	100	90 - 110	P	01/21/2025	11:26	LB134358
	Thallium	1040	1000	104	90 - 110	P	01/21/2025	11:26	LB134358
	Vanadium	483	500	97	90 - 110	P	01/21/2025	11:26	LB134358
	Zinc	1020	1000	102	90 - 110	P	01/21/2025	11:26	LB134358

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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	90.4	100	90	80 - 120	P	01/21/2025	11:35	LB134358
	Antimony	49.2	50.0	98	80 - 120	P	01/21/2025	11:35	LB134358
	Arsenic	20.6	20.0	103	80 - 120	P	01/21/2025	11:35	LB134358
	Barium	93.4	100	93	80 - 120	P	01/21/2025	11:35	LB134358
	Beryllium	5.63	6.0	94	80 - 120	P	01/21/2025	11:35	LB134358
	Cadmium	5.80	6.0	97	80 - 120	P	01/21/2025	11:35	LB134358
	Calcium	1930	2000	96	80 - 120	P	01/21/2025	11:35	LB134358
	Chromium	9.51	10.0	95	80 - 120	P	01/21/2025	11:35	LB134358
	Cobalt	28.9	30.0	96	80 - 120	P	01/21/2025	11:35	LB134358
	Copper	21.6	20.0	108	80 - 120	P	01/21/2025	11:35	LB134358
	Iron	109	100	109	80 - 120	P	01/21/2025	11:35	LB134358
	Lead	11.8	12.0	98	80 - 120	P	01/21/2025	11:35	LB134358
	Magnesium	2030	2000	102	80 - 120	P	01/21/2025	11:35	LB134358
	Manganese	19.8	20.0	99	80 - 120	P	01/21/2025	11:35	LB134358
	Nickel	38.6	40.0	96	80 - 120	P	01/21/2025	11:35	LB134358
	Potassium	1980	2000	99	80 - 120	P	01/21/2025	11:35	LB134358
	Selenium	19.4	20.0	97	80 - 120	P	01/21/2025	11:35	LB134358
	Silver	10.3	10.0	103	80 - 120	P	01/21/2025	11:35	LB134358
	Sodium	2000	2000	100	80 - 120	P	01/21/2025	11:35	LB134358
	Thallium	39.3	40.0	98	80 - 120	P	01/21/2025	11:35	LB134358
	Vanadium	38.6	40.0	96	80 - 120	P	01/21/2025	11:35	LB134358
	Zinc	41.9	40.0	105	80 - 120	P	01/21/2025	11:35	LB134358

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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	9840	10000	98	90 - 110	P	01/21/2025	12:12	LB134358
	Antimony	4970	5000	100	90 - 110	P	01/21/2025	12:12	LB134358
	Arsenic	4890	5000	98	90 - 110	P	01/21/2025	12:12	LB134358
	Barium	9850	10000	98	90 - 110	P	01/21/2025	12:12	LB134358
	Beryllium	240	250	96	90 - 110	P	01/21/2025	12:12	LB134358
	Cadmium	2450	2500	98	90 - 110	P	01/21/2025	12:12	LB134358
	Calcium	24500	25000	98	90 - 110	P	01/21/2025	12:12	LB134358
	Chromium	992	1000	99	90 - 110	P	01/21/2025	12:12	LB134358
	Cobalt	2450	2500	98	90 - 110	P	01/21/2025	12:12	LB134358
	Copper	1240	1250	100	90 - 110	P	01/21/2025	12:12	LB134358
	Iron	5040	5000	101	90 - 110	P	01/21/2025	12:12	LB134358
	Lead	4890	5000	98	90 - 110	P	01/21/2025	12:12	LB134358
	Magnesium	24300	25000	97	90 - 110	P	01/21/2025	12:12	LB134358
	Manganese	2450	2500	98	90 - 110	P	01/21/2025	12:12	LB134358
	Nickel	2450	2500	98	90 - 110	P	01/21/2025	12:12	LB134358
	Potassium	25300	25000	101	90 - 110	P	01/21/2025	12:12	LB134358
	Selenium	4940	5000	99	90 - 110	P	01/21/2025	12:12	LB134358
	Silver	1240	1250	99	90 - 110	P	01/21/2025	12:12	LB134358
	Sodium	25300	25000	101	90 - 110	P	01/21/2025	12:12	LB134358
	Thallium	5100	5000	102	90 - 110	P	01/21/2025	12:12	LB134358
	Vanadium	2460	2500	98	90 - 110	P	01/21/2025	12:12	LB134358
	Zinc	2490	2500	100	90 - 110	P	01/21/2025	12:12	LB134358
CCV02	Aluminum	9660	10000	97	90 - 110	P	01/21/2025	13:01	LB134358
	Antimony	4910	5000	98	90 - 110	P	01/21/2025	13:01	LB134358
	Arsenic	4820	5000	96	90 - 110	P	01/21/2025	13:01	LB134358
	Barium	9770	10000	98	90 - 110	P	01/21/2025	13:01	LB134358
	Beryllium	238	250	95	90 - 110	P	01/21/2025	13:01	LB134358
	Cadmium	2420	2500	97	90 - 110	P	01/21/2025	13:01	LB134358
	Calcium	24000	25000	96	90 - 110	P	01/21/2025	13:01	LB134358
	Chromium	984	1000	98	90 - 110	P	01/21/2025	13:01	LB134358
	Cobalt	2420	2500	97	90 - 110	P	01/21/2025	13:01	LB134358
	Copper	1230	1250	98	90 - 110	P	01/21/2025	13:01	LB134358
	Iron	5050	5000	101	90 - 110	P	01/21/2025	13:01	LB134358
	Lead	4820	5000	96	90 - 110	P	01/21/2025	13:01	LB134358

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- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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	23800	25000	95	90 - 110	P	01/21/2025	13:01	LB134358
	Manganese	2400	2500	96	90 - 110	P	01/21/2025	13:01	LB134358
	Nickel	2420	2500	97	90 - 110	P	01/21/2025	13:01	LB134358
	Potassium	25100	25000	101	90 - 110	P	01/21/2025	13:01	LB134358
	Selenium	4870	5000	97	90 - 110	P	01/21/2025	13:01	LB134358
	Silver	1230	1250	99	90 - 110	P	01/21/2025	13:01	LB134358
	Sodium	25100	25000	100	90 - 110	P	01/21/2025	13:01	LB134358
	Thallium	5100	5000	102	90 - 110	P	01/21/2025	13:01	LB134358
	Vanadium	2420	2500	97	90 - 110	P	01/21/2025	13:01	LB134358
	Zinc	2470	2500	99	90 - 110	P	01/21/2025	13:01	LB134358
CCV03	Aluminum	9610	10000	96	90 - 110	P	01/21/2025	13:18	LB134358
	Antimony	4940	5000	99	90 - 110	P	01/21/2025	13:18	LB134358
	Arsenic	4870	5000	97	90 - 110	P	01/21/2025	13:18	LB134358
	Barium	9590	10000	96	90 - 110	P	01/21/2025	13:18	LB134358
	Beryllium	233	250	93	90 - 110	P	01/21/2025	13:18	LB134358
	Cadmium	2410	2500	96	90 - 110	P	01/21/2025	13:18	LB134358
	Calcium	23700	25000	95	90 - 110	P	01/21/2025	13:18	LB134358
	Chromium	974	1000	97	90 - 110	P	01/21/2025	13:18	LB134358
	Cobalt	2410	2500	96	90 - 110	P	01/21/2025	13:18	LB134358
	Copper	1230	1250	98	90 - 110	P	01/21/2025	13:18	LB134358
	Iron	4840	5000	97	90 - 110	P	01/21/2025	13:18	LB134358
	Lead	4810	5000	96	90 - 110	P	01/21/2025	13:18	LB134358
	Magnesium	23700	25000	95	90 - 110	P	01/21/2025	13:18	LB134358
	Manganese	2360	2500	94	90 - 110	P	01/21/2025	13:18	LB134358
	Nickel	2410	2500	96	90 - 110	P	01/21/2025	13:18	LB134358
	Potassium	24200	25000	97	90 - 110	P	01/21/2025	13:18	LB134358
	Selenium	4910	5000	98	90 - 110	P	01/21/2025	13:18	LB134358
	Silver	1200	1250	96	90 - 110	P	01/21/2025	13:18	LB134358
	Sodium	24400	25000	98	90 - 110	P	01/21/2025	13:18	LB134358
	Thallium	5090	5000	102	90 - 110	P	01/21/2025	13:18	LB134358
	Vanadium	2390	2500	96	90 - 110	P	01/21/2025	13:18	LB134358
	Zinc	2430	2500	97	90 - 110	P	01/21/2025	13:18	LB134358
CCV04	Aluminum	9510	10000	95	90 - 110	P	01/21/2025	13:56	LB134358
	Antimony	5020	5000	100	90 - 110	P	01/21/2025	13:56	LB134358

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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	4940	5000	99	90 - 110	P	01/21/2025	13:56	LB134358
	Barium	9550	10000	96	90 - 110	P	01/21/2025	13:56	LB134358
	Beryllium	226	250	90	90 - 110	P	01/21/2025	13:56	LB134358
	Cadmium	2410	2500	96	90 - 110	P	01/21/2025	13:56	LB134358
	Calcium	23300	25000	93	90 - 110	P	01/21/2025	13:56	LB134358
	Chromium	959	1000	96	90 - 110	P	01/21/2025	13:56	LB134358
	Cobalt	2410	2500	96	90 - 110	P	01/21/2025	13:56	LB134358
	Copper	1240	1250	99	90 - 110	P	01/21/2025	13:56	LB134358
	Iron	4930	5000	99	90 - 110	P	01/21/2025	13:56	LB134358
	Lead	4790	5000	96	90 - 110	P	01/21/2025	13:56	LB134358
	Magnesium	22900	25000	92	90 - 110	P	01/21/2025	13:56	LB134358
	Manganese	2310	2500	92	90 - 110	P	01/21/2025	13:56	LB134358
	Nickel	2410	2500	96	90 - 110	P	01/21/2025	13:56	LB134358
	Potassium	25100	25000	101	90 - 110	P	01/21/2025	13:56	LB134358
	Selenium	5040	5000	101	90 - 110	P	01/21/2025	13:56	LB134358
	Silver	1210	1250	96	90 - 110	P	01/21/2025	13:56	LB134358
	Sodium	25300	25000	101	90 - 110	P	01/21/2025	13:56	LB134358
	Thallium	5060	5000	101	90 - 110	P	01/21/2025	13:56	LB134358
	Vanadium	2360	2500	94	90 - 110	P	01/21/2025	13:56	LB134358
	Zinc	2420	2500	97	90 - 110	P	01/21/2025	13:56	LB134358
CCV05	Aluminum	9740	10000	97	90 - 110	P	01/21/2025	15:03	LB134358
	Antimony	5040	5000	101	90 - 110	P	01/21/2025	15:03	LB134358
	Arsenic	4970	5000	99	90 - 110	P	01/21/2025	15:03	LB134358
	Barium	9770	10000	98	90 - 110	P	01/21/2025	15:03	LB134358
	Beryllium	230	250	92	90 - 110	P	01/21/2025	15:03	LB134358
	Cadmium	2430	2500	97	90 - 110	P	01/21/2025	15:03	LB134358
	Calcium	23900	25000	96	90 - 110	P	01/21/2025	15:03	LB134358
	Chromium	978	1000	98	90 - 110	P	01/21/2025	15:03	LB134358
	Cobalt	2430	2500	97	90 - 110	P	01/21/2025	15:03	LB134358
	Copper	1250	1250	100	90 - 110	P	01/21/2025	15:03	LB134358
	Iron	5010	5000	100	90 - 110	P	01/21/2025	15:03	LB134358
	Lead	4840	5000	97	90 - 110	P	01/21/2025	15:03	LB134358
	Magnesium	23700	25000	95	90 - 110	P	01/21/2025	15:03	LB134358
	Manganese	2380	2500	95	90 - 110	P	01/21/2025	15:03	LB134358

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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	2430	2500	97	90 - 110	P	01/21/2025	15:03	LB134358
	Potassium	25400	25000	102	90 - 110	P	01/21/2025	15:03	LB134358
	Selenium	5030	5000	101	90 - 110	P	01/21/2025	15:03	LB134358
	Silver	1220	1250	97	90 - 110	P	01/21/2025	15:03	LB134358
	Sodium	25600	25000	102	90 - 110	P	01/21/2025	15:03	LB134358
	Thallium	5110	5000	102	90 - 110	P	01/21/2025	15:03	LB134358
	Vanadium	2420	2500	97	90 - 110	P	01/21/2025	15:03	LB134358
	Zinc	2450	2500	98	90 - 110	P	01/21/2025	15:03	LB134358

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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	Aluminum	91.5	100	92	40 - 160	P	01/21/2025	11:59	LB134358
	Antimony	48.9	50.0	98	40 - 160	P	01/21/2025	11:59	LB134358
	Arsenic	20.8	20.0	104	40 - 160	P	01/21/2025	11:59	LB134358
	Barium	87.2	100	87	40 - 160	P	01/21/2025	11:59	LB134358
	Beryllium	5.73	6.0	96	40 - 160	P	01/21/2025	11:59	LB134358
	Cadmium	5.73	6.0	96	40 - 160	P	01/21/2025	11:59	LB134358
	Calcium	1890	2000	94	40 - 160	P	01/21/2025	11:59	LB134358
	Chromium	9.51	10.0	95	40 - 160	P	01/21/2025	11:59	LB134358
	Cobalt	29.0	30.0	97	40 - 160	P	01/21/2025	11:59	LB134358
	Copper	21.6	20.0	108	40 - 160	P	01/21/2025	11:59	LB134358
	Iron	101	100	101	40 - 160	P	01/21/2025	11:59	LB134358
	Lead	11.6	12.0	97	40 - 160	P	01/21/2025	11:59	LB134358
	Magnesium	1990	2000	100	40 - 160	P	01/21/2025	11:59	LB134358
	Manganese	19.3	20.0	96	40 - 160	P	01/21/2025	11:59	LB134358
	Nickel	38.7	40.0	97	40 - 160	P	01/21/2025	11:59	LB134358
	Potassium	1910	2000	96	40 - 160	P	01/21/2025	11:59	LB134358
	Selenium	19.8	20.0	99	40 - 160	P	01/21/2025	11:59	LB134358
	Silver	11.1	10.0	111	40 - 160	P	01/21/2025	11:59	LB134358
	Sodium	1960	2000	98	40 - 160	P	01/21/2025	11:59	LB134358
	Thallium	40.3	40.0	101	40 - 160	P	01/21/2025	11:59	LB134358
	Vanadium	38.1	40.0	95	40 - 160	P	01/21/2025	11:59	LB134358
	Zinc	42.1	40.0	105	40 - 160	P	01/21/2025	11:59	LB134358
CRA	Mercury	0.17	0.2	85	40 - 160	CV	01/23/2025	10:28	LB134375

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB66	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	01/23/2025	10:21	LB134375

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB62	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	01/23/2025	10:26	LB134375
CCB63	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	01/23/2025	10:58	LB134375
CCB64	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	01/23/2025	11:12	LB134375

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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	01/21/2025	11:51	LB134358
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	01/21/2025	11:51	LB134358
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	11:51	LB134358
	Barium	100	+/-100	U	25.0	100	P	01/21/2025	11:51	LB134358
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	01/21/2025	11:51	LB134358
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/21/2025	11:51	LB134358
	Calcium	2000	+/-2000	U	500	2000	P	01/21/2025	11:51	LB134358
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/21/2025	11:51	LB134358
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	01/21/2025	11:51	LB134358
	Copper	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	11:51	LB134358
	Iron	100	+/-100	U	80.0	100	P	01/21/2025	11:51	LB134358
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/21/2025	11:51	LB134358
	Magnesium	2000	+/-2000	U	500	2000	P	01/21/2025	11:51	LB134358
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	01/21/2025	11:51	LB134358
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	01/21/2025	11:51	LB134358
	Potassium	2000	+/-2000	U	1600	2000	P	01/21/2025	11:51	LB134358
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	11:51	LB134358
	Silver	10.0	+/-10.0	U	5.00	10.0	P	01/21/2025	11:51	LB134358
	Sodium	2000	+/-2000	U	1000	2000	P	01/21/2025	11:51	LB134358
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	01/21/2025	11:51	LB134358
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	01/21/2025	11:51	LB134358
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	01/21/2025	11:51	LB134358

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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	01/21/2025	12:16	LB134358
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	01/21/2025	12:16	LB134358
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	12:16	LB134358
	Barium	100	+/-100	U	25.0	100	P	01/21/2025	12:16	LB134358
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	01/21/2025	12:16	LB134358
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/21/2025	12:16	LB134358
	Calcium	2000	+/-2000	U	500	2000	P	01/21/2025	12:16	LB134358
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/21/2025	12:16	LB134358
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	01/21/2025	12:16	LB134358
	Copper	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	12:16	LB134358
	Iron	100	+/-100	U	80.0	100	P	01/21/2025	12:16	LB134358
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/21/2025	12:16	LB134358
	Magnesium	2000	+/-2000	U	500	2000	P	01/21/2025	12:16	LB134358
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	01/21/2025	12:16	LB134358
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	01/21/2025	12:16	LB134358
	Potassium	2000	+/-2000	U	1600	2000	P	01/21/2025	12:16	LB134358
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	12:16	LB134358
	Silver	1.24	+/-10.0	J	5.00	10.0	P	01/21/2025	12:16	LB134358
	Sodium	2000	+/-2000	U	1000	2000	P	01/21/2025	12:16	LB134358
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	01/21/2025	12:16	LB134358
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	01/21/2025	12:16	LB134358
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	01/21/2025	12:16	LB134358
CCB02	Aluminum	100	+/-100	U	80.0	100	P	01/21/2025	13:06	LB134358
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	01/21/2025	13:06	LB134358
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	13:06	LB134358
	Barium	100	+/-100	U	25.0	100	P	01/21/2025	13:06	LB134358
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	01/21/2025	13:06	LB134358
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/21/2025	13:06	LB134358
	Calcium	2000	+/-2000	U	500	2000	P	01/21/2025	13:06	LB134358
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/21/2025	13:06	LB134358
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	01/21/2025	13:06	LB134358
	Copper	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	13:06	LB134358
	Iron	100	+/-100	U	80.0	100	P	01/21/2025	13:06	LB134358
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/21/2025	13:06	LB134358
	Magnesium	2000	+/-2000	U	500	2000	P	01/21/2025	13:06	LB134358
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	01/21/2025	13:06	LB134358
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	01/21/2025	13:06	LB134358
	Potassium	2000	+/-2000	U	1600	2000	P	01/21/2025	13:06	LB134358
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	13:06	LB134358

Alliance TECHNICAL GROUP
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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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	01/21/2025	13:06	LB134358
	Sodium	2000	+/-2000	U	1000	2000	P	01/21/2025	13:06	LB134358
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	01/21/2025	13:06	LB134358
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	01/21/2025	13:06	LB134358
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	01/21/2025	13:06	LB134358
CCB03	Aluminum	100	+/-100	U	80.0	100	P	01/21/2025	13:22	LB134358
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	01/21/2025	13:22	LB134358
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	13:22	LB134358
	Barium	100	+/-100	U	25.0	100	P	01/21/2025	13:22	LB134358
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	01/21/2025	13:22	LB134358
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/21/2025	13:22	LB134358
	Calcium	2000	+/-2000	U	500	2000	P	01/21/2025	13:22	LB134358
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/21/2025	13:22	LB134358
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	01/21/2025	13:22	LB134358
	Copper	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	13:22	LB134358
	Iron	100	+/-100	U	80.0	100	P	01/21/2025	13:22	LB134358
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/21/2025	13:22	LB134358
	Magnesium	2000	+/-2000	U	500	2000	P	01/21/2025	13:22	LB134358
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	01/21/2025	13:22	LB134358
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	01/21/2025	13:22	LB134358
	Potassium	2000	+/-2000	U	1600	2000	P	01/21/2025	13:22	LB134358
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	13:22	LB134358
	Silver	10.0	+/-10.0	U	5.00	10.0	P	01/21/2025	13:22	LB134358
	Sodium	2000	+/-2000	U	1000	2000	P	01/21/2025	13:22	LB134358
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	01/21/2025	13:22	LB134358
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	01/21/2025	13:22	LB134358
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	01/21/2025	13:22	LB134358
CCB04	Aluminum	100	+/-100	U	80.0	100	P	01/21/2025	14:00	LB134358
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	01/21/2025	14:00	LB134358
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	14:00	LB134358
	Barium	100	+/-100	U	25.0	100	P	01/21/2025	14:00	LB134358
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	01/21/2025	14:00	LB134358
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/21/2025	14:00	LB134358
	Calcium	2000	+/-2000	U	500	2000	P	01/21/2025	14:00	LB134358
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/21/2025	14:00	LB134358
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	01/21/2025	14:00	LB134358
	Copper	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	14:00	LB134358
	Iron	100	+/-100	U	80.0	100	P	01/21/2025	14:00	LB134358
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/21/2025	14:00	LB134358

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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	01/21/2025	14:00	LB134358
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	01/21/2025	14:00	LB134358
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	01/21/2025	14:00	LB134358
	Potassium	2000	+/-2000	U	1600	2000	P	01/21/2025	14:00	LB134358
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	14:00	LB134358
	Silver	10.0	+/-10.0	U	5.00	10.0	P	01/21/2025	14:00	LB134358
	Sodium	2000	+/-2000	U	1000	2000	P	01/21/2025	14:00	LB134358
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	01/21/2025	14:00	LB134358
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	01/21/2025	14:00	LB134358
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	01/21/2025	14:00	LB134358
CCB05	Aluminum	100	+/-100	U	80.0	100	P	01/21/2025	15:07	LB134358
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	01/21/2025	15:07	LB134358
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	15:07	LB134358
	Barium	100	+/-100	U	25.0	100	P	01/21/2025	15:07	LB134358
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	01/21/2025	15:07	LB134358
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/21/2025	15:07	LB134358
	Calcium	2000	+/-2000	U	500	2000	P	01/21/2025	15:07	LB134358
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/21/2025	15:07	LB134358
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	01/21/2025	15:07	LB134358
	Copper	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	15:07	LB134358
	Iron	100	+/-100	U	80.0	100	P	01/21/2025	15:07	LB134358
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/21/2025	15:07	LB134358
	Magnesium	2000	+/-2000	U	500	2000	P	01/21/2025	15:07	LB134358
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	01/21/2025	15:07	LB134358
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	01/21/2025	15:07	LB134358
	Potassium	2000	+/-2000	U	1600	2000	P	01/21/2025	15:07	LB134358
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/21/2025	15:07	LB134358
	Silver	10.0	+/-10.0	U	5.00	10.0	P	01/21/2025	15:07	LB134358
	Sodium	2000	+/-2000	U	1000	2000	P	01/21/2025	15:07	LB134358
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	01/21/2025	15:07	LB134358
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	01/21/2025	15:07	LB134358
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	01/21/2025	15:07	LB134358

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Metals
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PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166192BL		**WATER**		**Batch Number:**		**PB166192**		**Prep Date:**	**01/22/2025**	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	01/23/2025	10:35	LB134375

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Metals
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PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166153BL		**WATER**		**Batch Number:**		**PB166153**		**Prep Date:**	**01/21/2025**	
	Aluminum	50.0	<50.0	U	40.0	50.0	P	01/21/2025	14:55	LB134358
	Antimony	25.0	<25.0	U	6.25	25.0	P	01/21/2025	14:55	LB134358
	Arsenic	10.0	<10.0	U	8.00	10.0	P	01/21/2025	14:55	LB134358
	Barium	50.0	<50.0	U	12.5	50.0	P	01/21/2025	14:55	LB134358
	Beryllium	3.00	<3.00	U	0.75	3.00	P	01/21/2025	14:55	LB134358
	Cadmium	3.00	<3.00	U	0.75	3.00	P	01/21/2025	14:55	LB134358
	Calcium	1000	<1000	U	250	1000	P	01/21/2025	14:55	LB134358
	Chromium	5.00	<5.00	U	2.50	5.00	P	01/21/2025	14:55	LB134358
	Cobalt	15.0	<15.0	U	3.75	15.0	P	01/21/2025	14:55	LB134358
	Copper	10.0	<10.0	U	8.00	10.0	P	01/21/2025	14:55	LB134358
	Iron	50.0	<50.0	U	40.0	50.0	P	01/21/2025	14:55	LB134358
	Lead	6.00	<6.00	U	4.80	6.00	P	01/21/2025	14:55	LB134358
	Magnesium	1000	<1000	U	250	1000	P	01/21/2025	14:55	LB134358
	Manganese	10.0	<10.0	U	2.50	10.0	P	01/21/2025	14:55	LB134358
	Nickel	20.0	<20.0	U	5.00	20.0	P	01/21/2025	14:55	LB134358
	Potassium	1000	<1000	U	800	1000	P	01/21/2025	14:55	LB134358
	Selenium	10.0	<10.0	U	8.00	10.0	P	01/21/2025	14:55	LB134358
	Silver	5.00	<5.00	U	2.50	5.00	P	01/21/2025	14:55	LB134358
	Sodium	1000	<1000	U	500	1000	P	01/21/2025	14:55	LB134358
	Thallium	20.0	<20.0	U	10.0	20.0	P	01/21/2025	14:55	LB134358
	Vanadium	20.0	<20.0	U	10.0	20.0	P	01/21/2025	14:55	LB134358
	Zinc	20.0	<20.0	U	5.00	20.0	P	01/21/2025	14:55	LB134358

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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	242000	255000	95	216000	294000	01/21/2025	12:03	LB134358
	Antimony	-1.90			-50	50	01/21/2025	12:03	LB134358
	Arsenic	-1.38			-20	20	01/21/2025	12:03	LB134358
	Barium	1.39	6.0	23	-94	106	01/21/2025	12:03	LB134358
	Beryllium	1.25			-6	6	01/21/2025	12:03	LB134358
	Cadmium	-1.84	1.0	184	-5	7	01/21/2025	12:03	LB134358
	Calcium	229000	245000	94	208000	282000	01/21/2025	12:03	LB134358
	Chromium	58.1	52.0	112	42	62	01/21/2025	12:03	LB134358
	Cobalt	1.29			-30	30	01/21/2025	12:03	LB134358
	Copper	1.63	2.0	82	-18	22	01/21/2025	12:03	LB134358
	Iron	103000	101000	102	85600	116500	01/21/2025	12:03	LB134358
	Lead	8.78			-12	12	01/21/2025	12:03	LB134358
	Magnesium	243000	255000	95	216000	294000	01/21/2025	12:03	LB134358
	Manganese	5.90	7.0	84	-13	27	01/21/2025	12:03	LB134358
	Nickel	2.86	2.0	143	-38	42	01/21/2025	12:03	LB134358
	Potassium	65.9			0	0	01/21/2025	12:03	LB134358
	Selenium	-12.5			-20	20	01/21/2025	12:03	LB134358
	Silver	2.40			-10	10	01/21/2025	12:03	LB134358
	Sodium	42.8			0	0	01/21/2025	12:03	LB134358
	Thallium	13.6			-40	40	01/21/2025	12:03	LB134358
	Vanadium	4.87			-40	40	01/21/2025	12:03	LB134358
	Zinc	3.58			-40	40	01/21/2025	12:03	LB134358
ICSAB01	Aluminum	240000	247000	97	209000	285000	01/21/2025	12:08	LB134358
	Antimony	631	618	102	525	711	01/21/2025	12:08	LB134358
	Arsenic	108	104	104	88.4	120	01/21/2025	12:08	LB134358
	Barium	476	537	89	437	637	01/21/2025	12:08	LB134358
	Beryllium	476	495	96	420	570	01/21/2025	12:08	LB134358
	Cadmium	1010	972	104	826	1120	01/21/2025	12:08	LB134358
	Calcium	228000	235000	97	199000	271000	01/21/2025	12:08	LB134358
	Chromium	570	542	105	460	624	01/21/2025	12:08	LB134358
	Cobalt	511	476	107	404	548	01/21/2025	12:08	LB134358
	Copper	497	511	97	434	588	01/21/2025	12:08	LB134358
	Iron	104000	99300	105	84400	114500	01/21/2025	12:08	LB134358
	Lead	56.1	49.0	114	37	61	01/21/2025	12:08	LB134358
	Magnesium	242000	248000	98	210000	286000	01/21/2025	12:08	LB134358
	Manganese	472	507	93	430	584	01/21/2025	12:08	LB134358
	Nickel	1010	954	106	810	1100	01/21/2025	12:08	LB134358
	Potassium	54.5			0	0	01/21/2025	12:08	LB134358
	Selenium	38.8	46.0	84	26	66	01/21/2025	12:08	LB134358
	Silver	225	201	112	170	232	01/21/2025	12:08	LB134358
	Sodium	38.8			0	0	01/21/2025	12:08	LB134358
	Thallium	102	108	94	68	148	01/21/2025	12:08	LB134358

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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	471	491	96	417	565	01/21/2025	12:08	LB134358
	Zinc	1070	952	112	809	1095	01/21/2025	12:08	LB134358

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q1122

contract: TETR06 **lab code:** CHEM **case no.:** Q1122 **sas no.:** Q1122

matrix: Water **sample id:** Q1122-02 **client id:** RW10A-F-20250116MS

Percent Solids for Sample: NA **Spiked ID:** Q1122-02MS **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	1540		696		1000	84	N	P
Antimony	ug/L	88 - 113	377		25.0	U	400	94		P
Arsenic	ug/L	87 - 113	379		10.0	U	400	95		P
Barium	ug/L	88 - 113	94.7		10.2	J	100	85	N	P
Beryllium	ug/L	89 - 112	85.3		0.14	J	100	85	N	P
Cadmium	ug/L	88 - 113	89.6		3.00	U	100	90		P
Calcium	ug/L	87 - 113	9470		9420		500	9		P
Chromium	ug/L	90 - 113	190		5.00	U	200	95		P
Cobalt	ug/L	89 - 114	109		17.4		100	91		P
Copper	ug/L	86 - 114	158		18.4		150	93		P
Iron	ug/L	87 - 115	3400		2190		1500	81	N	P
Lead	ug/L	86 - 113	442		6.00	U	500	88		P
Magnesium	ug/L	85 - 113	4520		3880		1000	64	N	P
Manganese	ug/L	90 - 114	196		114		100	82	N	P
Nickel	ug/L	88 - 113	246		18.5	J	250	91		P
Potassium	ug/L	86 - 114	7480		3030		5000	89		P
Selenium	ug/L	83 - 114	904		10.0	U	1000	90		P
Silver	ug/L	84 - 115	34.6		5.00	U	37.5	92		P
Sodium	ug/L	87 - 115	44500		47700		1500	-211		P
Thallium	ug/L	85 - 114	929		20.0	U	1000	93		P
Vanadium	ug/L	90 - 111	134		20.0	U	150	89	N	P
Zinc	ug/L	87 - 115	171		77.8		100	93		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q1122

contract: TETR06 **lab code:** CHEM **case no.:** Q1122 **sas no.:** Q1122

matrix: Water **sample id:** Q1122-02 **client id:** RW10A-F-20250116MSD

Percent Solids for Sample: NA **Spiked ID:** Q1122-02MSD **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	1560		696		1000	87		P
Antimony	ug/L	88 - 113	384		25.0	U	400	96		P
Arsenic	ug/L	87 - 113	390		10.0	U	400	98		P
Barium	ug/L	88 - 113	101		10.2	J	100	91		P
Beryllium	ug/L	89 - 112	81.8		0.14	J	100	82	N	P
Cadmium	ug/L	88 - 113	91.4		3.00	U	100	91		P
Calcium	ug/L	87 - 113	9710		9420		500	56		P
Chromium	ug/L	90 - 113	190		5.00	U	200	95		P
Cobalt	ug/L	89 - 114	110		17.4		100	93		P
Copper	ug/L	86 - 114	160		18.4		150	95		P
Iron	ug/L	87 - 115	3600		2190		1500	94		P
Lead	ug/L	86 - 113	450		6.00	U	500	90		P
Magnesium	ug/L	85 - 113	4650		3880		1000	77	N	P
Manganese	ug/L	90 - 114	202		114		100	87	N	P
Nickel	ug/L	88 - 113	251		18.5	J	250	93		P
Potassium	ug/L	86 - 114	7910		3030		5000	98		P
Selenium	ug/L	83 - 114	930		10.0	U	1000	93		P
Silver	ug/L	84 - 115	34.6		5.00	U	37.5	92		P
Sodium	ug/L	87 - 115	47100		47700		1500	-38		P
Thallium	ug/L	85 - 114	945		20.0	U	1000	94		P
Vanadium	ug/L	90 - 111	137		20.0	U	150	91		P
Zinc	ug/L	87 - 115	170		77.8		100	92		P

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metals
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MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q1122

contract: TETR06 **lab code:** CHEM **case no.:** Q1122 **sas no.:** Q1122

matrix: Water **sample id:** Q1140-01 **client id:** FRAC-TANK-F06078MS

Percent Solids for Sample: NA **Spiked ID:** Q1140-01MS **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	3.78		0.22		4.0	89		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q1122

contract: TETR06 **lab code:** CHEM **case no.:** Q1122 **sas no.:** Q1122

matrix: Water **sample id:** Q1140-01 **client id:** FRAC-TANK-F06078MSD

Percent Solids for Sample: NA **Spiked ID:** Q1140-01MSD **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	3.74		0.22		4.0	88		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

Matrix: Water **Level:** LOW **Client ID:** RW10A-F-20250116A

Sample ID: Q1122-02 **Spiked ID:** Q1122-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	86 - 115	1550		696		10000	9		P
Barium	ug/L	88 - 113	97.4		10.2	J	100	87		P
Beryllium	ug/L	89 - 112	81.6		0.14	J	100	81		P
Iron	ug/L	87 - 115	3520		2190		1500	89		P
Magnesium	ug/L	85 - 113	4570		3880		1000	68		P
Manganese	ug/L	90 - 114	197		114		100	82		P
Vanadium	ug/L	90 - 111	134		20.0	U	150	89		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

Matrix: Water **Sample ID:** Q1122-02 **Client ID:** RW10A-F-20250116DUP

Percent Solids for Sample: NA **Duplicate ID** Q1122-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	696		692		1		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	10.2	J	9.27	J	10		P
Beryllium	ug/L	20	0.14	J	0.13	J	7		P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	9420		9380		0		P
Chromium	ug/L	20	5.00	U	0.69	J	200.0		P
Cobalt	ug/L	20	17.4		17.4		0		P
Copper	ug/L	20	18.4		18.4		0		P
Iron	ug/L	20	2190		2100		4		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	3880		3870		0		P
Manganese	ug/L	20	114		113		1		P
Nickel	ug/L	20	18.5	J	18.3	J	1		P
Potassium	ug/L	20	3030		2890		5		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	47700		45400		5		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	77.8		76.8		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.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

Matrix: Water **Sample ID:** Q1122-02MS **Client ID:** RW10A-F-20250116MSD

Percent Solids for Sample: NA **Duplicate ID** Q1122-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1540		1560		1		P
Antimony	ug/L	20	377		384		2		P
Arsenic	ug/L	20	379		390		3		P
Barium	ug/L	20	94.7		101		6		P
Beryllium	ug/L	20	85.3		81.8		4		P
Cadmium	ug/L	20	89.6		91.4		2		P
Calcium	ug/L	20	9470		9710		3		P
Chromium	ug/L	20	190		190		0		P
Cobalt	ug/L	20	109		110		1		P
Copper	ug/L	20	158		160		1		P
Iron	ug/L	20	3400		3600		6		P
Lead	ug/L	20	442		450		2		P
Magnesium	ug/L	20	4520		4650		3		P
Manganese	ug/L	20	196		202		3		P
Nickel	ug/L	20	246		251		2		P
Potassium	ug/L	20	7480		7910		6		P
Selenium	ug/L	20	904		930		3		P
Silver	ug/L	20	34.6		34.6		0		P
Sodium	ug/L	20	44500		47100		6		P
Thallium	ug/L	20	929		945		2		P
Vanadium	ug/L	20	134		137		2		P
Zinc	ug/L	20	171		170		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.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

Matrix: Water **Sample ID:** Q1140-01 **Client ID:** FRAC-TANK-F06078DUP

Percent Solids for Sample: NA **Duplicate ID** Q1140-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.22		0.18	J	18		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.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

Matrix: Water **Sample ID:** Q1140-01MS **Client ID:** FRAC-TANK-F06078MSD

Percent Solids for Sample: NA **Duplicate ID** Q1140-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.78		3.74		1		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.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166153BS							
Aluminum	ug/L	1000	903		90	86 - 115	P
Antimony	ug/L	400	381		95	88 - 113	P
Arsenic	ug/L	400	385		96	87 - 113	P
Barium	ug/L	100	88.3		88	88 - 113	P
Beryllium	ug/L	100	90.1		90	89 - 112	P
Cadmium	ug/L	100	92.3		92	88 - 113	P
Calcium	ug/L	500	479	J	96	87 - 113	P
Chromium	ug/L	200	191		96	90 - 113	P
Cobalt	ug/L	100	93.3		93	89 - 114	P
Copper	ug/L	150	149		99	86 - 114	P
Iron	ug/L	1500	1470		98	87 - 115	P
Lead	ug/L	500	464		93	86 - 113	P
Magnesium	ug/L	1000	897	J	90	85 - 113	P
Manganese	ug/L	100	92.9		93	90 - 114	P
Nickel	ug/L	250	234		94	88 - 113	P
Potassium	ug/L	5000	4830		97	86 - 114	P
Selenium	ug/L	1000	955		96	83 - 114	P
Silver	ug/L	37.5	36.3		97	84 - 115	P
Sodium	ug/L	1500	1510		101	87 - 115	P
Thallium	ug/L	1000	1020		102	85 - 114	P
Vanadium	ug/L	150	136		91	90 - 111	P
Zinc	ug/L	100	97.6		98	87 - 115	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166192BS							
Mercury	ug/L	4.0	4.02		100	82 - 119	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

RW10A-F-20250116L

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

Lab Code: CHEM **Lb No.:** lb134358 **Lab Sample ID :** Q1122-02L **SDG No.:** Q1122

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	696		718		3		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	10.2	J	250	U	100.0		P
Beryllium	0.14	J	15.0	U	100.0		P
Cadmium	3.00	U	15.0	U			P
Calcium	9420		10100		7		P
Chromium	5.00	U	25.0	U			P
Cobalt	17.4		18.0	J	4		P
Copper	18.4		50.0	U	100.0		P
Iron	2190		2280		4		P
Lead	6.00	U	30.0	U			P
Magnesium	3880		4180	J	8		P
Manganese	114		122		7		P
Nickel	18.5	J	18.7	J	1		P
Potassium	3030		5000	U	100.0		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	47700		48900		3		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	77.8		78.5	J	1		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

FRAC-TANK-F06078L

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

Lab Code: CHEM **Lb No.:** lb134375 **Lab Sample ID :** Q1140-01L **SDG No.:** Q1122

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	0.22		1.00	U	100.0		CV

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1122 **SAS No.:** Q1122

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.:** Q1122

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

Case No.: Q1122 **SAS No.:** Q1122

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166153**						
PB166153BL	PB166153BL	MB	WATER	01/21/2025	50.0	25.0	
PB166153BS	PB166153BS	LCS	WATER	01/21/2025	50.0	25.0	
Q1122-01	RW10A-20250116	SAM	WATER	01/21/2025	50.0	25.0	
Q1122-02	RW10A-F-20250116	SAM	WATER	01/21/2025	50.0	25.0	
Q1122-02DUP	RW10A-F-20250116DUP	DUP	WATER	01/21/2025	50.0	25.0	
Q1122-02MS	RW10A-F-20250116MS	MS	WATER	01/21/2025	50.0	25.0	
Q1122-02MSD	RW10A-F-20250116MSD	MSD	WATER	01/21/2025	50.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

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

Case No.: Q1122 **SAS No.:** Q1122

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166192**						
PB166192BL	PB166192BL	MB	WATER	01/22/2025	30.0	30.0	
PB166192BS	PB166192BS	LCS	WATER	01/22/2025	30.0	30.0	
Q1122-01	RW10A-20250116	SAM	WATER	01/22/2025	30.0	30.0	
Q1122-02	RW10A-F-20250116	SAM	WATER	01/22/2025	30.0	30.0	
Q1140-01DUP	FRAC-TANK-F06078DUP	DUP	WATER	01/22/2025	30.0	30.0	
Q1140-01MS	FRAC-TANK-F06078MS	MS	WATER	01/22/2025	30.0	30.0	
Q1140-01MSD	FRAC-TANK-F06078MSD	MSD	WATER	01/22/2025	30.0	30.0	

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ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** Q1122 **Sas no.:** Q1122 **Sdg no.:** Q1122

Instrument id number: **Method:** **Run number:** LB134358

Start date: 01/21/2025 **End date:** 01/21/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1101	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	1105	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	1109	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	1114	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	1118	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	1122	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	1126	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	1135	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	1151	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	1159	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	1203	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	1208	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	1212	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	1216	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	1301	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	1306	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	1318	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	1322	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	1356	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	1400	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1122-01	RW10A-20250116	1	1426	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1122-02	RW10A-F-20250116	1	1430	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1122-02DUP	RW10A-F-20250116DUP	1	1434	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1122-02L	RW10A-F-20250116L	5	1439	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1122-02MS	RW10A-F-20250116MS	1	1443	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1122-02MSD	RW10A-F-20250116MSD	1	1447	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1122-02A	RW10A-F-20250116A	1	1451	Al,Ba,Be,Fe,Mg,Mn,V
PB166153BL	PB166153BL	1	1455	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166153BS	PB166153BS	1	1459	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	1503	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	1507	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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ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** Q1122 **Sas no.:** Q1122 **Sdg no.:** Q1122

Instrument id number: **Method:** **Run number:** LB134375

Start date: 01/23/2025 **End date:** 01/23/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0952	HG
S0.2	S0.2	1	0954	HG
S2.5	S2.5	1	0957	HG
S5	S5	1	0959	HG
S7.5	S7.5	1	1004	HG
S10	S10	1	1011	HG
ICV66	ICV66	1	1019	HG
ICB66	ICB66	1	1021	HG
CCV62	CCV62	1	1023	HG
CCB62	CCB62	1	1026	HG
CRA	CRA	1	1028	HG
PB166192BL	PB166192BL	1	1035	HG
PB166192BS	PB166192BS	1	1037	HG
Q1122-01	RW10A-20250116	1	1039	HG
Q1122-02	RW10A-F-20250116	1	1042	HG
Q1140-01DUP	FRAC-TANK-F06078DUP	1	1051	HG
Q1140-01MS	FRAC-TANK-F06078MS	1	1053	HG
CCV63	CCV63	1	1056	HG
CCB63	CCB63	1	1058	HG
Q1140-01MSD	FRAC-TANK-F06078MSD	1	1100	HG
Q1140-01L	FRAC-TANK-F06078L	5	1105	HG
CCV64	CCV64	1	1110	HG
CCB64	CCB64	1	1112	HG

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LAB CHRONICLE

OrderID:	Q1122	**OrderDate:**	1/17/2025 8:43:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	E11,M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1122-01	**RW10A-20250116**	**Water**			**01/16/25 10:40**			**01/16/25**
			Alkalinity	SM2320 B			01/22/25 14:28	
			pH	9040C			01/20/25 08:45	
			Phosphorus-Total	365.3		01/22/25	01/22/25 15:06	
			TDS	SM2540 C			01/17/25 12:30	
			TSS	SM2540 D			01/17/25 09:45	

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/16/25 10:40
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1122
Lab Sample ID:	Q1122-01	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	1.00	U	1	1.00	1.00	2.00	mg/L		01/22/25 14:28	SM 2320 B-11
pH	4.35	H	1	0	0	0	pH		01/20/25 08:45	9040C
Phosphorus, Total	0.016	J	1	0.0050	0.025	0.050	mg/L	01/22/25 13:00	01/22/25 15:06	365.3
TDS	232		1	1.00	10.0	10.0	mg/L		01/17/25 12:30	SM 2540 C-15
TSS	3.10	J	1	1.00	4.00	4.00	mg/L		01/17/25 09:45	SM 2540 D-15

Comments: pH result reported at temperature 20.6 °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.:** Q1122

Project: NWIRP Bethpage 112G08005-WE13 **RunNo.:** LB134337

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
pH	pH	7.01	7	100	90-110	01/20/2025
Sample ID: **CCV1**						
pH	pH	2.01	2.00	101	90-110	01/20/2025
Sample ID: **CCV2**						
pH	pH	12.02	12.00	100	90-110	01/20/2025

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Initial and Continuing Calibration Verification

Client:	Tetra Tech NUS, Inc.	**SDG No.:**	Q1122
Project:	NWIRP Bethpage 112G08005-WE13	**RunNo.:**	LB134369

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Phosphorus, Total	mg/L	0.482	0.50	96	90-110	01/22/2025
Sample ID: CCV1						
Phosphorus, Total	mg/L	0.490	0.50	98	90-110	01/22/2025
Sample ID: CCV2						
Phosphorus, Total	mg/L	0.490	0.50	98	90-110	01/22/2025

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Initial and Continuing Calibration Blank Summary

Client:	Tetra Tech NUS, Inc.	**SDG No.:**	Q1122
Project:	NWIRP Bethpage 112G08005-WE13	**RunNo.:**	LB134369

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Phosphorus, Total	mg/L	0.008	0.0250	J	0.0047	0.05	01/22/2025
Sample ID: CCB1							
Phosphorus, Total	mg/L	0.008	0.0250	J	0.0047	0.05	01/22/2025
Sample ID: CCB2							
Phosphorus, Total	mg/L	0.008	0.0250	J	0.0047	0.05	01/22/2025

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Preparation Blank Summary

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1122

Project: NWIRP Bethpage 112G08005-WE13

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB134326BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	01/17/2025
Sample ID: LB134342BL							
TSS	mg/L	< 2.0000	2.0000	U	1	4	01/17/2025
Sample ID: LB134367BL							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	01/22/2025
Sample ID: PB166181BL							
Phosphorus, Total	mg/L	0.008	0.0250	J	0.005	0.05	01/22/2025

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Matrix Spike Summary

Client: Tetra Tech NUS, Inc.
SDG No.: Q1122
Project: NWIRP Bethpage 112G08005-WE13
Sample ID: Q1122-01
Client ID: RW10A-20250116MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/L	90-110	0.48		0.016	J	0.5	1	93		01/22/2025

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Matrix Spike Summary

Client: Tetra Tech NUS, Inc.
SDG No.: Q1122
Project: NWIRP Bethpage 112G08005-WE13
Sample ID: Q1122-01
Client ID: RW10A-20250116MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/L	90-110	0.48		0.016	J	0.5	1	93		01/22/2025

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Duplicate Sample Summary

Client: Tetra Tech NUS, Inc.
SDG No.: Q1122
Project: NWIRP Bethpage 112G08005-WE13
Sample ID: Q1111-01
Client ID: DRAIN WATER TANK-1DUP
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	290		294		1	1.37		01/17/2025

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Duplicate Sample Summary

Client: Tetra Tech NUS, Inc.
SDG No.: Q1122
Project: NWIRP Bethpage 112G08005-WE13
Sample ID: Q1122-01
Client ID: RW10A-20250116DUP
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
TDS	mg/L	+/-5	232		230		1	0.87		01/17/2025
pH	pH	+/-20	4.35		4.36		1	0.23		01/20/2025
Alkalinity	mg/L	+/-20	1.00	U	1.00	U	1	0		01/22/2025
Phosphorus, Total	mg/L	+/-20	0.016	J	0.017	J	1	6.06		01/22/2025

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Duplicate Sample Summary

Client: Tetra Tech NUS, Inc.
SDG No.: Q1122
Project: NWIRP Bethpage 112G08005-WE13
Sample ID: Q1122-01
Client ID: RW10A-20250116MSD
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
Phosphorus, Total	mg/L	+/-20	0.48		0.48		1	0.62		01/22/2025

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Laboratory Control Sample Summary

Client:	Tetra Tech NUS, Inc.	**SDG No.:**	Q1122
Project:	NWIRP Bethpage 112G08005-WE13	**Run No.:**	LB134326

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB134326BS**								
TDS	mg/L	100	94.0		94	1	90-110	01/17/2025

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.:**	Q1122
Project:	NWIRP Bethpage 112G08005-WE13	**Run No.:**	LB134342

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB134342BS								
TSS	mg/L	550	520		94	1	90-110	01/17/2025

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Fax : 908 789 8922

Laboratory Control Sample Summary

Client:	Tetra Tech NUS, Inc.	**SDG No.:**	Q1122
Project:	NWIRP Bethpage 112G08005-WE13	**Run No.:**	LB134367

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB134367BS								
Alkalinity	mg/L	50	50.4		101	1	80-120	01/22/2025

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Fax : 908 789 8922

Laboratory Control Sample Summary

Client:	Tetra Tech NUS, Inc.	**SDG No.:**	Q1122
Project:	NWIRP Bethpage 112G08005-WE13	**Run No.:**	LB134369

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB166181BS								
Phosphorus, Total	**mg/L**	**0.50**	**0.49**		**98**	**1**	**90-110**	**01/22/2025**

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO. Q1122
QUOTE NO.
COC Number 2041596

10
10.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Tetra Tech Inc.
ADDRESS: 4433 Corporation Lane Suite 300
CITY Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 112G08005-WE13 LOCATION: Bethpage, NY
PROJECT MANAGER: Ernie Wu
e-mail: ernie.wu@tetratech.com
PHONE: 757-466-4901 FAX:

CLIENT BILLING INFORMATION

BILL TO: See Contract PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard TAT DAYS*
EDD: Standard TAT DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☒ Other See Contract
- ☐ EDD FORMAT _____

ANALYSIS

1 TAL Metals
2 Filtered Metals
3 TCL SVOCs
4 PCB/Pesticides
5 pH
6 Total Phosphorus
7 TSS
8 TDS
9 Alkalinity

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								B/E	B/E	E	E	E	C/E	E	E	E	← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	RW10A-20250116	GW		X	1-16-24	1040	8	1		1	1	1	1	1	1	1	
2.	RW10A-F-20250116	GW		X	1-16-24	1040	1		1								Field Filtered
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	1-16-25 / 1530	1. 1530 1-16-25
2.		2.
3.	1-16-25 1810	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.7 °C
Comments:

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☒ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

10
10.2

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Friday, January 17, 2025 10:32 AM
Subject: Re: NWIRP BethPage - Q1122

Jake,

Got it, thank you!

As we discussed on the phone, we have one 1-liter amber container for PCB/Pesticides. We will divide the volume for each test.

Thank you!

NOTE: Chemtech is now an Alliance Technical Group company. Please add AllianceTG.com to your safe senders list to ensure receipt of important emails.

Regards,

Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Friday, January 17, 2025 9:33 AM
To: Wu, Ernie <Ernie.Wu@tetratech.com>; Jake.Marlow@tetratech.com <Jake.Marlow@tetratech.com>
Cc: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Subject: NWIRP BethPage - Q1122

Good Morning Jake,

Can you please share the compounds list that need to be analyzed under pesticides for attached COC?

Let me know.

Thanks.

NOTE: Chemtech is now an Alliance Technical Group company. Please add AllianceTG.com to your safe senders list to ensure receipt of important emails.

Regards,

Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

10
10.2

From: Marlow, Jake <Jake.Marlow@tetratech.com>
Sent: Monday, January 20, 2025 9:27 AM
Subject: RE: Q1122 - NWIRP Bethpage 112G08005-WE13

Hi Kiran,

Yes that is a mistake, the collection date should be 1-16-25.

Thank you,
Jake

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Monday, January 20, 2025 9:00 AM
To: Marlow, Jake <Jake.Marlow@tetratech.com>
Cc: Wu, Ernie <Ernie.Wu@tetratech.com>
Subject: Q1122 - NWIRP Bethpage 112G08005-WE13

Good Morning Ernie,

I am reaching out regarding the samples collection date. It could be a mistake; the COC collection date says 1-16-24 while the relinquished date says 1-16-25. Please confirm the collection date. Please find attached COC.

Thank you!

NOTE: Chemtech is now an Alliance Technical Group company. Please add AllianceTG.com to your safe senders list to ensure receipt of important emails.

Regards,

Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

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

Laboratory Certification

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