

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS
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 : Q1069

ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1069

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1069-01
Q1069-02

Client Sample Number

RW7B-CARBON-20250109
RW7B-CARBON-20250109

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 10:25 am, Jan 23, 2025

Date: 1/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager: Ernie Wu

Chemtech Project # Q1069

Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:

2 Solid samples were received on 01/09/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Flash Point, Ignitability, PCB, pH, SVOC-TCL BNA -20, TCLP Extraction, TCLP Mercury, TCLP Metal, TCLP VOA, TCLP ZHE Extraction and TCLP Metals Group1. This data package contains results for TCLP VOA.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of TCLP VOA was based on method 8260D and TCLP extraction method was 1311.

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 for {VN0116WBSD02} with File ID: VN085477.D met criteria except for 2-Butanone[23%] due to difference in results of BS-BSD.

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

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

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

Trip Blank was not provided with this set of samples.

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.

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Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:25 am, Jan 23, 2025

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager: Ernie Wu

Chemtech Project # Q1069

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

2 Solid samples were received on 01/09/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Flash Point, Ignitability, PCB, pH, SVOC-TCL BNA -20, TCLP Extraction, TCLP Mercury, TCLP Metal, TCLP VOA, TCLP ZHE Extraction and TCLP Metals Group1. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for TR-06-1-10-2025MS [2,4,6-Tribromophenol - 22%, Terphenyl-d14 - 45%], TR-06-1-10-2025MSD [2,4,6-Tribromophenol - 25%, Terphenyl-d14 - 52%], due to matrix interference and no corrective action is needed, and

RW7B-CARBON-20250109 [2,4,6-Tribromophenol - 6%, 2-Fluorobiphenyl - 9%, 2-Fluorophenol - 5%, Nitrobenzene-d5 - 9%, Phenol-d6 - 5%, Terphenyl-d14 - 8%],

RW7B-CARBON-20250109RX [2,4,6-Tribromophenol - 34%, 2-Fluorobiphenyl - 39%, 2-Fluorophenol - 33%, Phenol-d6 - 32% and Terphenyl-d14 - 29%] Failure sample for surrogate was reanalyzed to confirm the failure and both run were reported in Hard Copy.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q1068-01MS} with File ID: BF141175.D recoveries met the requirements for all compounds except for 1,4-Dioxane[48%], 2,3,4,6-Tetrachlorophenol[23%], 2,4,6-Trichlorophenol[35%], 2,4-Dinitrophenol[0%], 4,6-Dinitro-2-methylphenol[12%], 4-Nitrophenol[21%] and Pentachlorophenol[24%], due to matrix interference and no corrective action is needed. .

The MSD {Q1068-01MSD} with File ID: BF141176.D recoveries met the acceptable requirements except for 1,4-Dioxane[49%], 2,3,4,6-Tetrachlorophenol[26%], 2,4,6-Trichlorophenol[35%], 2,4-Dinitrophenol[0%], 4,6-Dinitro-2-methylphenol[9%], 4-Nitrophenol[25%] and Pentachlorophenol[23%], due to matrix interference and no corrective action is needed.

The RPD for {Q1068-01MSD} with File ID: BF141176.D met criteria except for 4,6-Dinitro-2-methylphenol[29%], Hexachlorocyclopentadiene[37%], due to difference in results of MS and MSD .

The Blank Spike for {PB166035BS} with File ID: BF141165.D met requirements for all samples except for Hexachlorocyclopentadiene[179%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank Spike for {PB166061BS} with File ID: BF141172.D met requirements for all samples except for Atrazine[129%], Hexachlorocyclopentadiene[191%],The associate samples have no positive hit for these compounds therefore no corrective action was taken. .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

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 7 points.

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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



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

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Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:25 am, Jan 23, 2025

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager: Ernie Wu

Chemtech Project # Q1069

Test Name: PCB

A. Number of Samples and Date of Receipt:

2 Solid samples were received on 01/09/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Flash Point, Ignitability, PCB, pH, SVOC-TCL BNA -20, TCLP Extraction, TCLP Mercury, TCLP Metal, TCLP VOA, TCLP ZHE Extraction and TCLP Metals Group1. 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 3541.

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 MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements.

The RPD met criteria .

The Blank Spike 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:

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.

The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:

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



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By Nimisha Pandya, QA/QC Supervisor at 10:25 am, Jan 23, 2025

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager: Ernie Wu

Chemtech Project # Q1069

Test Name: TCLPMetals Group1,TCLP Mercury

A. Number of Samples and Date of Receipt:

2 Solid samples were received on 01/09/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Flash Point, Ignitability, PCB, pH, SVOC-TCL BNA -20, TCLP Extraction, TCLP Mercury, TCLP Metal, TCLP VOA, TCLP ZHE Extraction and TCLPMetals Group1. This data package contains results for TCLPMetals Group1,TCLP Mercury.

C. Analytical Techniques:

The analysis of TCLPMetals Group1 was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

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 analysis met criteria for all samples.

The Matrix Spike Duplicate (NP-WS-002MSD) analysis met criteria for all samples except for Cadmium 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:

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 10:26 am, Jan 23, 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 # Q1069

Test Name: pH,Ignitability

A. Number of Samples and Date of Receipt:

2 Solid samples were received on 01/09/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Flash Point, Ignitability, PCB, pH, SVOC-TCL BNA -20, TCLP Extraction, TCLP Mercury, TCLP Metal, TCLP VOA, TCLP ZHE Extraction and TCLP Metals Group1. This data package contains results for pH,Ignitability.

C. Analytical Techniques:

The analysis of Ignitability was based on method 1030 and The analysis of pH was based on method 9045D.

D. QA/ QC Samples:

The Holding Times were met for all samples except for RW7B-CARBON-20250109 of pH as this sample received out of hold.

The Duplicate analysis met criteria for all samples.

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

The Calibration met the requirements.

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

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

Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:26 am, Jan 23, 2025

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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 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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1069

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 01/23/2025

LAB CHRONICLE

OrderID:	Q1069	OrderDate:	1/10/2025 1:20:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1069-02	RW7B-CARBON-20250 109	TCLP	TCLP VOA	8260D	01/09/25		01/16/25	01/09/25

Hit Summary Sheet
SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	RW7B-CARBON-20250109								
Q1069-02	RW7B-CARBON-2 TCLP	Chloroform		2.00	J	0.26	0.50	5.00	ug/L
Q1069-02	RW7B-CARBON-2 TCLP	1,2-Dichloroethane		0.96	J	0.24	0.75	5.00	ug/L
Q1069-02	RW7B-CARBON-2 TCLP	Trichloroethene		1.60	J	0.32	0.75	5.00	ug/L
		Total Voc :		4.56					
		Total Concentration:		4.56					

A

B

C

D

E

F

G



SAMPLE DATA

A

B

C

D

E

F

G

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/09/25		
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	01/09/25		
Client Sample ID:	RW7B-CARBON-20250109			SDG No.:	Q1069		
Lab Sample ID:	Q1069-02			Matrix:	TCLP		
Analytical Method:	SW8260			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	TCLP VOA		
GC Column:	RXI-624	ID :	0.25	Level :	LOW		
Prep Method :	SW5035						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085470.D	1		01/16/25 15:22	VN011625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	5.00	ug/L
67-66-3	Chloroform	2.00	J	0.26	0.50	5.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.96	J	0.24	0.75	5.00	ug/L
79-01-6	Trichloroethene	1.60	J	0.32	0.75	5.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	5.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.7		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.2		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	199000	8.218				
540-36-3	1,4-Difluorobenzene	359000	9.094				
3114-55-4	Chlorobenzene-d5	315000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.788				

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

Surrogate Summary

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1069-02	RW7B-CARBON-20250109	1,2-Dichloroethane-d4	50	53.7	107	81	118
		Dibromofluoromethane	50	50.6	101	80	119
		Toluene-d8	50	50.2	100	89	112
		4-Bromofluorobenzene	50	49.1	98	85	114

Surrogate Summary

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VN0116WBL01	VN0116WBL01	1,2-Dichloroethane-d4	50	57.4	115	81	118
		Dibromofluoromethane	50	53.1	106	80	119
		Toluene-d8	50	50.2	100	89	112
		4-Bromofluorobenzene	50	47.9	96	85	114
VN0116WBS02	VN0116WBS02	1,2-Dichloroethane-d4	50	52.5	105	81	118
		Dibromofluoromethane	50	53.9	108	80	119
		Toluene-d8	50	56.1	112	89	112
		4-Bromofluorobenzene	50	55.9	112	85	114
VN0116WBSD0	VN0116WBSD02	1,2-Dichloroethane-d4	50	54.2	108	81	118
		Dibromofluoromethane	50	53.3	107	80	119
		Toluene-d8	50	55.3	111	89	112
		4-Bromofluorobenzene	50	54.2	108	85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VN085469.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0116WBS02	Vinyl chloride	20	17.5	ug/L	88			58	137	
	1,1-Dichloroethene	20	18.4	ug/L	92			71	131	
	2-Butanone	100	87.3	ug/L	87			56	143	
	Carbon Tetrachloride	20	18.4	ug/L	92			72	136	
	Chloroform	20	18.0	ug/L	90			79	124	
	Benzene	20	18.8	ug/L	94			79	120	
	1,2-Dichloroethane	20	18.8	ug/L	94			73	128	
	Trichloroethene	20	18.4	ug/L	92			79	123	
	Tetrachloroethene	20	19.5	ug/L	98			74	129	
	Chlorobenzene	20	19.2	ug/L	96			82	118	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1069
Client: Tetra Tech NUS, Inc.
Analytical Method: SW8260-Low Datafile : VN085477.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0116WBSD02	Vinyl chloride	20	19.8	ug/L	99	12		58	137	20
	1,1-Dichloroethene	20	20.4	ug/L	102	10		71	131	20
	2-Butanone	100	110	ug/L	110	23	*	56	143	20
	Carbon Tetrachloride	20	20.4	ug/L	102	10		72	136	20
	Chloroform	20	20.7	ug/L	104	14		79	124	20
	Benzene	20	20.5	ug/L	103	9		79	120	20
	1,2-Dichloroethane	20	20.7	ug/L	104	10		73	128	20
	Trichloroethene	20	19.7	ug/L	99	7		79	123	20
	Tetrachloroethene	20	20.5	ug/L	103	5		74	129	20
	Chlorobenzene	20	20.1	ug/L	101	5		82	118	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0116WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1069

SAS No.: Q1069 SDG NO.: Q1069

Lab File ID: VN085467.D

Lab Sample ID: VN0116WBL01

Date Analyzed: 01/16/2025

Time Analyzed: 13:30

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0116WBS02	VN0116WBS02	VN085469.D	01/16/2025
RW7B-CARBON-20250109	Q1069-02	VN085470.D	01/16/2025
VN0116WBSD02	VN0116WBSD02	VN085477.D	01/16/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069
Lab File ID: VN085437.D BFB Injection Date: 01/14/2025
Instrument ID: MSVOA_N BFB Injection Time: 14:22
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.3
75	30.0 - 60.0% of mass 95	58
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	76
175	5.0 - 9.0% of mass 174	5.4 (7.1) 1
176	95.0 - 101.0% of mass 174	74.1 (97.4) 1
177	5.0 - 9.0% of mass 176	4.9 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN085438.D	01/14/2025	14:56
VSTDICCC050	VSTDICCC050	VN085439.D	01/14/2025	15:19
VSTDICC020	VSTDICC020	VN085440.D	01/14/2025	15:43
VSTDICC010	VSTDICC010	VN085441.D	01/14/2025	16:07
VSTDICC005	VSTDICC005	VN085442.D	01/14/2025	16:31
VSTDICC001	VSTDICC001	VN085443.D	01/14/2025	17:19

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069
Lab File ID: VN085464.D BFB Injection Date: 01/16/2025
Instrument ID: MSVOA_N BFB Injection Time: 11:42
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24
75	30.0 - 60.0% of mass 95	56.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.3 (1.8) 1
174	50.0 - 100.0% of mass 95	72.7
175	5.0 - 9.0% of mass 174	5.6 (7.8) 1
176	95.0 - 101.0% of mass 174	70.6 (97.1) 1
177	5.0 - 9.0% of mass 176	4.6 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN085465.D	01/16/2025	12:30
VN0116WBL01	VN0116WBL01	VN085467.D	01/16/2025	13:30
VN0116WBS02	VN0116WBS02	VN085469.D	01/16/2025	14:58
RW7B-CARBON-20250109	Q1069-02	VN085470.D	01/16/2025	15:22
VN0116WBSD02	VN0116WBSD02	VN085477.D	01/16/2025	18:08
VSTDCCC050EC	VSTDCCC050	VN085478.D	01/16/2025	18:32

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069
Lab File ID: VN085465.D Date Analyzed: 01/16/2025
Instrument ID: MSVOA_N Time Analyzed: 12:30
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	199641	8.22	338720	9.09	304435	11.87
UPPER LIMIT	399282	8.724	677440	9.594	608870	12.365
LOWER LIMIT	99820.5	7.724	169360	8.594	152218	11.365
EPA SAMPLE NO.						
RW7B-CARBON-20250109	198665	8.22	358567	9.09	314710	11.86
VN0116WBL01	181190	8.22	338995	9.10	304427	11.87
VN0116WBS02	216168	8.22	362531	9.10	315947	11.87
VN0116WBSD02	189081	8.22	325305	9.10	284195	11.86

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069
Lab File ID: VN085465.D Date Analyzed: 01/16/2025
Instrument ID: MSVOA_N Time Analyzed: 12:30
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	154064	13.788				
UPPER LIMIT	308128	14.288				
LOWER LIMIT	77032	13.288				
EPA SAMPLE NO.						
RW7B-CARBON-20250109	128541	13.79				
VN0116WBL01	123871	13.79				
VN0116WBS02	152840	13.79				
VN0116WBSD02	135710	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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



QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0116WBL01		SDG No.:	Q1069
Lab Sample ID:	VN0116WBL01		Matrix:	TCLP
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085467.D	1		01/16/25 13:30	VN011625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.4		81 - 118		115%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	50.2		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	181000	8.224				
540-36-3	1,4-Difluorobenzene	339000	9.1				
3114-55-4	Chlorobenzene-d5	304000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.788				

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0116WBS02		SDG No.:	Q1069
Lab Sample ID:	VN0116WBS02		Matrix:	TCLP
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085469.D	1		01/16/25 14:58	VN011625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	17.5		0.34	0.75	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.4		0.26	0.75	1.00	ug/L
78-93-3	2-Butanone	87.3		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.4		0.25	0.50	1.00	ug/L
67-66-3	Chloroform	18.0		0.26	0.50	1.00	ug/L
71-43-2	Benzene	18.8		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.4		0.32	0.75	1.00	ug/L
127-18-4	Tetrachloroethene	19.5		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.2		0.13	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.5		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	53.9		80 - 119		108%	SPK: 50
2037-26-5	Toluene-d8	56.1		89 - 112		112%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.9		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	216000	8.218				
540-36-3	1,4-Difluorobenzene	363000	9.1				
3114-55-4	Chlorobenzene-d5	316000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	153000	13.788				

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0116WBSD02		SDG No.:	Q1069
Lab Sample ID:	VN0116WBSD02		Matrix:	TCLP
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085477.D	1		01/16/25 18:08	VN011625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	19.8		0.34	0.75	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.4		0.26	0.75	1.00	ug/L
78-93-3	2-Butanone	110		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.4		0.25	0.50	1.00	ug/L
67-66-3	Chloroform	20.7		0.26	0.50	1.00	ug/L
71-43-2	Benzene	20.5		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.7		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.7		0.32	0.75	1.00	ug/L
127-18-4	Tetrachloroethene	20.5		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.1		0.13	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.2		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		80 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	55.3		89 - 112		111%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	189000	8.224				
540-36-3	1,4-Difluorobenzene	325000	9.1				
3114-55-4	Chlorobenzene-d5	284000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	136000	13.788				

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG No.: Q1069
Instrument ID: MSVOA_N Calibration Date(s): 01/14/2025 01/14/2025
Heated Purge: (Y/N) N Calibration Time(s): 14:56 17:19
GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085438.D		RRF050 = VN085439.D		RRF020 = VN085440.D			
		RRF010 = VN085441.D		RRF005 = VN085442.D		RRF001 = VN085443.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Vinyl Chloride	0.697	0.686	0.727	0.711	0.781	0.819	0.737	7.1	
1,1-Dichloroethene	0.548	0.533	0.556	0.526	0.559	0.497	0.537	4.3	
2-Butanone	0.378	0.390	0.398	0.363	0.387	0.386	0.384	3.1	
Carbon Tetrachloride	0.574	0.530	0.579	0.529	0.565	0.567	0.557	4	
Chloroform	1.197	1.175	1.241	1.169	1.253	1.273	1.218	3.6	
Benzene	1.551	1.449	1.527	1.376	1.474	1.400	1.463	4.7	
1,2-Dichloroethane	0.569	0.547	0.575	0.522	0.574	0.517	0.551	4.8	
Trichloroethene	0.362	0.324	0.352	0.310	0.343	0.352	0.341	5.8	
Tetrachloroethene	0.351	0.322	0.365	0.338	0.346	0.323	0.341	4.9	
Chlorobenzene	1.133	1.076	1.154	1.047	1.110	1.051	1.095	4	
1,2-Dichloroethane-d4	0.774	0.831	0.754	0.762	0.914		0.807	8.3	
Dibromofluoromethane	0.359	0.358	0.335	0.310	0.373		0.347	7.1	
Toluene-d8	1.339	1.267	1.207	1.076	1.274		1.232	8.1	
4-Bromofluorobenzene	0.475	0.449	0.410	0.357	0.417		0.422	10.6	

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG No.: Q1069

Instrument ID: MSVOA_N Calibration Date/Time: 01/16/2025 12:30

Lab File ID: VN085465.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.737	0.708		-3.93	20
1,1-Dichloroethene	0.537	0.539		0.37	20
2-Butanone	0.384	0.397		3.38	20
Carbon Tetrachloride	0.557	0.567		1.79	20
Chloroform	1.218	1.244		2.13	20
Benzene	1.463	1.531		4.65	20
1,2-Dichloroethane	0.551	0.573		3.99	20
Trichloroethene	0.341	0.331		-2.93	20
Tetrachloroethene	0.341	0.346		1.47	20
Chlorobenzene	1.095	1.103	0.3	0.73	20
1,2-Dichloroethane-d4	0.807	0.883		9.42	20
Dibromofluoromethane	0.347	0.381		9.8	20
Toluene-d8	1.232	1.408		14.29	20
4-Bromofluorobenzene	0.422	0.495		17.3	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG No.: Q1069

Instrument ID: MSVOA_N Calibration Date/Time: 01/16/2025 18:32

Lab File ID: VN085478.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.737	0.742		0.68	50
1,1-Dichloroethene	0.537	0.556		3.54	50
2-Butanone	0.384	0.428		11.46	50
Carbon Tetrachloride	0.557	0.585		5.03	50
Chloroform	1.218	1.273		4.52	50
Benzene	1.463	1.568		7.18	50
1,2-Dichloroethane	0.551	0.592		7.44	50
Trichloroethene	0.341	0.348		2.05	50
Tetrachloroethene	0.341	0.352		3.23	50
Chlorobenzene	1.095	1.158	0.3	5.75	50
1,2-Dichloroethane-d4	0.807	0.859		6.44	50
Dibromofluoromethane	0.347	0.371		6.92	50
Toluene-d8	1.232	1.344		9.09	50
4-Bromofluorobenzene	0.422	0.476		12.8	50

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

LAB CHRONICLE

OrderID:	Q1069	OrderDate:	1/10/2025 1:20:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1069-01	RW7B-CARBON-20250 109	SOIL			01/09/25			01/09/25
			SVOC-TCL BNA -20	8270E		01/13/25	01/15/25	
Q1069-01RX	RW7B-CARBON-20250 109RX	SOIL			01/09/25			01/09/25
			SVOC-TCL BNA -20	8270E		01/15/25	01/15/25	

Hit Summary Sheet SW-846

SDG No.: Q1069
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW7B-CARBON-20250109									
Q1069-01	RW7B-CARBON-202501	SOIL	Bis(2-ethylhexyl)phthalate	280.000	J	160	230	310	ug/Kg
			Total Svoc :	280.00					
Q1069-01	RW7B-CARBON-202501	SOIL	1,2-Ethanediol, diformate *	1,800.000	J	0		0	ug/Kg
Q1069-01	RW7B-CARBON-202501	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	230.000	AB	0		0	ug/Kg
Q1069-01	RW7B-CARBON-202501	SOIL	Benzophenone *	290.000	J	0		0	ug/Kg
Q1069-01	RW7B-CARBON-202501	SOIL	Ethane, 1,1,2-trichloro- *	2,000.000	J	0		0	ug/Kg
Q1069-01	RW7B-CARBON-202501	SOIL	Hexasiloxane, 1,1,3,3,5,5,7,7,9,9, *	320.000	J	0		0	ug/Kg
Q1069-01	RW7B-CARBON-202501	SOIL	n-Hexadecanoic acid *	260.000	J	0		0	ug/Kg
Q1069-01	RW7B-CARBON-202501	SOIL	Trichloroethylene *	14,000.000	J	0		0	ug/Kg
Q1069-01	RW7B-CARBON-202501	SOIL	Pyridine *	230.000	J	140		310	ug/Kg
			Total Tics :	19,130.00					
			Total Concentration:	19,410.00					
Client ID : RW7B-CARBON-20250109RX									
Q1069-01RX	RW7B-CARBON-202501	SOIL	Bis(2-ethylhexyl)phthalate	560.000		160	230	310	ug/Kg
Q1069-01RX	RW7B-CARBON-202501	SOIL	Di-n-octyl phthalate	210.000	J	200	480	590	ug/Kg
			Total Svoc :	770.00					
			Total Concentration:	770.00					



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109	SDG No.:	Q1069
Lab Sample ID:	Q1069-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	55.6
Sample Wt/Vol:	30.03 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141173.D	1	01/13/25 08:54	01/15/25 14:13	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	490	U	330	490	590	ug/Kg
108-95-2	Phenol	230	U	150	230	310	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	230	U	150	230	310	ug/Kg
95-57-8	2-Chlorophenol	230	U	150	230	310	ug/Kg
95-48-7	2-Methylphenol	230	U	140	230	310	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	230	U	160	230	310	ug/Kg
98-86-2	Acetophenone	230	U	160	230	310	ug/Kg
65794-96-9	3+4-Methylphenols	490	U	140	490	590	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	140	U	72.4	140	140	ug/Kg
67-72-1	Hexachloroethane	230	U	150	230	310	ug/Kg
98-95-3	Nitrobenzene	230	U	160	230	310	ug/Kg
78-59-1	Isophorone	230	U	150	230	310	ug/Kg
88-75-5	2-Nitrophenol	230	U	170	230	310	ug/Kg
105-67-9	2,4-Dimethylphenol	230	U	170	230	310	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	230	U	150	230	310	ug/Kg
120-83-2	2,4-Dichlorophenol	230	U	140	230	310	ug/Kg
91-20-3	Naphthalene	230	U	150	230	310	ug/Kg
106-47-8	4-Chloroaniline	230	U	150	230	310	ug/Kg
87-68-3	Hexachlorobutadiene	230	U	150	230	310	ug/Kg
105-60-2	Caprolactam	490	U	160	490	590	ug/Kg
59-50-7	4-Chloro-3-methylphenol	230	U	140	230	310	ug/Kg
91-57-6	2-Methylnaphthalene	230	U	150	230	310	ug/Kg
77-47-4	Hexachlorocyclopentadiene	490	UQ	280	490	590	ug/Kg
88-06-2	2,4,6-Trichlorophenol	230	U	130	230	310	ug/Kg
95-95-4	2,4,5-Trichlorophenol	230	U	130	230	310	ug/Kg
92-52-4	1,1-Biphenyl	230	U	160	230	310	ug/Kg
91-58-7	2-Chloronaphthalene	230	U	150	230	310	ug/Kg
88-74-4	2-Nitroaniline	230	U	170	230	310	ug/Kg
131-11-3	Dimethylphthalate	230	U	150	230	310	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/09/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/09/25	
Client Sample ID:	RW7B-CARBON-20250109		SDG No.:	Q1069	
Lab Sample ID:	Q1069-01		Matrix:	SOIL	
Analytical Method:	SW8270		% Solid:	55.6	
Sample Wt/Vol:	30.03	Units: g	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 :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141173.D	1	01/13/25 08:54	01/15/25 14:13	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	230	U	160	230	310	ug/Kg
606-20-2	2,6-Dinitrotoluene	230	U	150	230	310	ug/Kg
99-09-2	3-Nitroaniline	230	U	160	230	310	ug/Kg
83-32-9	Acenaphthene	230	U	150	230	310	ug/Kg
51-28-5	2,4-Dinitrophenol	490	U	440	490	590	ug/Kg
100-02-7	4-Nitrophenol	490	U	210	490	590	ug/Kg
132-64-9	Dibenzofuran	230	U	150	230	310	ug/Kg
121-14-2	2,4-Dinitrotoluene	230	U	150	230	310	ug/Kg
84-66-2	Diethylphthalate	230	U	140	230	310	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	230	U	150	230	310	ug/Kg
86-73-7	Fluorene	230	U	150	230	310	ug/Kg
100-01-6	4-Nitroaniline	230	U	190	230	310	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	490	U	210	490	590	ug/Kg
86-30-6	n-Nitrosodiphenylamine	230	U	150	230	310	ug/Kg
101-55-3	4-Bromophenyl-phenylether	230	U	140	230	310	ug/Kg
118-74-1	Hexachlorobenzene	230	U	150	230	310	ug/Kg
1912-24-9	Atrazine	230	U	160	230	310	ug/Kg
87-86-5	Pentachlorophenol	490	U	140	490	590	ug/Kg
85-01-8	Phenanthrene	230	U	150	230	310	ug/Kg
120-12-7	Anthracene	230	U	150	230	310	ug/Kg
86-74-8	Carbazole	230	U	140	230	310	ug/Kg
84-74-2	Di-n-butylphthalate	230	U	150	230	310	ug/Kg
206-44-0	Fluoranthene	230	U	150	230	310	ug/Kg
129-00-0	Pyrene	230	U	150	230	310	ug/Kg
85-68-7	Butylbenzylphthalate	230	U	170	230	310	ug/Kg
91-94-1	3,3-Dichlorobenzidine	490	U	180	490	590	ug/Kg
56-55-3	Benzo(a)anthracene	230	U	140	230	310	ug/Kg
218-01-9	Chrysene	230	U	140	230	310	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	280	J	160	230	310	ug/Kg
117-84-0	Di-n-octyl phthalate	490	U	200	490	590	ug/Kg
205-99-2	Benzo(b)fluoranthene	230	U	150	230	310	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109	SDG No.:	Q1069
Lab Sample ID:	Q1069-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	55.6
Sample Wt/Vol:	30.03 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141173.D	1	01/13/25 08:54	01/15/25 14:13	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	230	U	150	230	310	ug/Kg
50-32-8	Benzo(a)pyrene	230	U	170	230	310	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	230	U	140	230	310	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	230	U	150	230	310	ug/Kg
191-24-2	Benzo(g,h,i)perylene	230	U	140	230	310	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	160	230	310	ug/Kg
123-91-1	1,4-Dioxane	230	U	200	230	310	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	130	230	310	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	7.86	*	35 - 115		5%	SPK: 150
13127-88-3	Phenol-d6	8.17	*	34 - 127		5%	SPK: 150
4165-60-0	Nitrobenzene-d5	8.53	*	37 - 122		9%	SPK: 100
321-60-8	2-Fluorobiphenyl	8.53	*	44 - 115		9%	SPK: 100
118-79-6	2,4,6-Tribromophenol	9.68	*	39 - 132		6%	SPK: 150
1718-51-0	Terphenyl-d14	7.98	*	54 - 127		8%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	131000	6.822
1146-65-2	Naphthalene-d8	521000	8.104
15067-26-2	Acenaphthene-d10	288000	9.857
1517-22-2	Phenanthrene-d10	491000	11.339
1719-03-5	Chrysene-d12	326000	13.98
1520-96-3	Perylene-d12	302000	15.439

TENTATIVE IDENTIFIED COMPOUNDS

000995-82-4	Hexasiloxane, 1,1,3,3,5,5,7,7,9,9,	320	J		2.14	ug/Kg
000079-01-6	Trichloroethylene	14000	J		2.43	ug/Kg
110-86-1	Pyridine	230	J		3.31	ug/Kg
000079-00-5	Ethane, 1,1,2-trichloro-	2000	J		4.09	ug/Kg
000629-15-2	1,2-Ethanediol, diformate	1800	J		4.99	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB		5.03	ug/Kg
000119-61-9	Benzophenone	290	J		10.6	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109		SDG No.:	Q1069
Lab Sample ID:	Q1069-01		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	55.6
Sample Wt/Vol:	30.03	Units: g	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 :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141173.D	1	01/13/25 08:54	01/15/25 14:13	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000057-10-3	n-Hexadecanoic acid	260	J			11.9	ug/Kg

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109RX	SDG No.:	Q1069
Lab Sample ID:	Q1069-01RX	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	55.6
Sample Wt/Vol:	30.07 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141174.D	1	01/15/25 09:15	01/15/25 14:39	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	480	U	330	480	590	ug/Kg
108-95-2	Phenol	230	U	150	230	310	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	230	U	150	230	310	ug/Kg
95-57-8	2-Chlorophenol	230	U	150	230	310	ug/Kg
95-48-7	2-Methylphenol	230	U	140	230	310	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	230	U	160	230	310	ug/Kg
98-86-2	Acetophenone	230	U	160	230	310	ug/Kg
65794-96-9	3+4-Methylphenols	480	U	140	480	590	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	140	U	72.3	140	140	ug/Kg
67-72-1	Hexachloroethane	230	U	150	230	310	ug/Kg
98-95-3	Nitrobenzene	230	U	160	230	310	ug/Kg
78-59-1	Isophorone	230	U	150	230	310	ug/Kg
88-75-5	2-Nitrophenol	230	U	170	230	310	ug/Kg
105-67-9	2,4-Dimethylphenol	230	U	170	230	310	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	230	U	150	230	310	ug/Kg
120-83-2	2,4-Dichlorophenol	230	U	140	230	310	ug/Kg
91-20-3	Naphthalene	230	U	150	230	310	ug/Kg
106-47-8	4-Chloroaniline	230	U	150	230	310	ug/Kg
87-68-3	Hexachlorobutadiene	230	U	150	230	310	ug/Kg
105-60-2	Caprolactam	480	U	160	480	590	ug/Kg
59-50-7	4-Chloro-3-methylphenol	230	U	140	230	310	ug/Kg
91-57-6	2-Methylnaphthalene	230	U	150	230	310	ug/Kg
77-47-4	Hexachlorocyclopentadiene	480	UQ	280	480	590	ug/Kg
88-06-2	2,4,6-Trichlorophenol	230	U	130	230	310	ug/Kg
95-95-4	2,4,5-Trichlorophenol	230	U	130	230	310	ug/Kg
92-52-4	1,1-Biphenyl	230	U	160	230	310	ug/Kg
91-58-7	2-Chloronaphthalene	230	U	150	230	310	ug/Kg
88-74-4	2-Nitroaniline	230	U	170	230	310	ug/Kg
131-11-3	Dimethylphthalate	230	U	150	230	310	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109RX	SDG No.:	Q1069
Lab Sample ID:	Q1069-01RX	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	55.6
Sample Wt/Vol:	30.07 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141174.D	1	01/15/25 09:15	01/15/25 14:39	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	230	U	160	230	310	ug/Kg
606-20-2	2,6-Dinitrotoluene	230	U	150	230	310	ug/Kg
99-09-2	3-Nitroaniline	230	U	160	230	310	ug/Kg
83-32-9	Acenaphthene	230	U	150	230	310	ug/Kg
51-28-5	2,4-Dinitrophenol	480	U	440	480	590	ug/Kg
100-02-7	4-Nitrophenol	480	U	210	480	590	ug/Kg
132-64-9	Dibenzofuran	230	U	150	230	310	ug/Kg
121-14-2	2,4-Dinitrotoluene	230	U	150	230	310	ug/Kg
84-66-2	Diethylphthalate	230	U	140	230	310	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	230	U	150	230	310	ug/Kg
86-73-7	Fluorene	230	U	150	230	310	ug/Kg
100-01-6	4-Nitroaniline	230	U	190	230	310	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	480	U	210	480	590	ug/Kg
86-30-6	n-Nitrosodiphenylamine	230	U	150	230	310	ug/Kg
101-55-3	4-Bromophenyl-phenylether	230	U	140	230	310	ug/Kg
118-74-1	Hexachlorobenzene	230	U	150	230	310	ug/Kg
1912-24-9	Atrazine	230	UQ	160	230	310	ug/Kg
87-86-5	Pentachlorophenol	480	U	140	480	590	ug/Kg
85-01-8	Phenanthrene	230	U	150	230	310	ug/Kg
120-12-7	Anthracene	230	U	150	230	310	ug/Kg
86-74-8	Carbazole	230	U	140	230	310	ug/Kg
84-74-2	Di-n-butylphthalate	230	U	150	230	310	ug/Kg
206-44-0	Fluoranthene	230	U	150	230	310	ug/Kg
129-00-0	Pyrene	230	U	150	230	310	ug/Kg
85-68-7	Butylbenzylphthalate	230	U	170	230	310	ug/Kg
91-94-1	3,3-Dichlorobenzidine	480	U	180	480	590	ug/Kg
56-55-3	Benzo(a)anthracene	230	U	140	230	310	ug/Kg
218-01-9	Chrysene	230	U	140	230	310	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	560		160	230	310	ug/Kg
117-84-0	Di-n-octyl phthalate	210	J	200	480	590	ug/Kg
205-99-2	Benzo(b)fluoranthene	230	U	150	230	310	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109RX	SDG No.:	Q1069
Lab Sample ID:	Q1069-01RX	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	55.6
Sample Wt/Vol:	30.07 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141174.D	1	01/15/25 09:15	01/15/25 14:39	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	230	U	150	230	310	ug/Kg
50-32-8	Benzo(a)pyrene	230	U	170	230	310	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	230	U	140	230	310	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	230	U	150	230	310	ug/Kg
191-24-2	Benzo(g,h,i)perylene	230	U	140	230	310	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	160	230	310	ug/Kg
123-91-1	1,4-Dioxane	230	U	200	230	310	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	130	230	310	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	49.5	*	35 - 115		33%	SPK: 150
13127-88-3	Phenol-d6	48.3	*	34 - 127		32%	SPK: 150
4165-60-0	Nitrobenzene-d5	38.0		37 - 122		38%	SPK: 100
321-60-8	2-Fluorobiphenyl	39.2	*	44 - 115		39%	SPK: 100
118-79-6	2,4,6-Tribromophenol	50.3	*	39 - 132		34%	SPK: 150
1718-51-0	Terphenyl-d14	28.7	*	54 - 127		29%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	131000	6.822
1146-65-2	Naphthalene-d8	511000	8.104
15067-26-2	Acenaphthene-d10	278000	9.857
1517-22-2	Phenanthrene-d10	450000	11.339
1719-03-5	Chrysene-d12	281000	13.98
1520-96-3	Perylene-d12	283000	15.439

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

Surrogate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166035BL	PB166035BL	2-Fluorophenol	150	137	92		35	115
		Phenol-d6	150	136	90		34	127
		Nitrobenzene-d5	100	96.4	96		37	122
		2-Fluorobiphenyl	100	97.6	98		44	115
		2,4,6-Tribromophenol	150	153	102		39	132
		Terphenyl-d14	100	82.6	83		54	127
PB166035BS	PB166035BS	2-Fluorophenol	150	128	85		35	115
		Phenol-d6	150	127	85		34	127
		Nitrobenzene-d5	100	88.7	89		37	122
		2-Fluorobiphenyl	100	88.5	89		44	115
		2,4,6-Tribromophenol	150	147	98		39	132
		Terphenyl-d14	100	88.7	89		54	127
Q1068-01MS	TR-06-1-10-2025MS	2-Fluorophenol	150	69.8	47		35	115
		Phenol-d6	150	80.8	54		34	127
		Nitrobenzene-d5	100	61.4	61		37	122
		2-Fluorobiphenyl	100	65.8	66		44	115
		2,4,6-Tribromophenol	150	33.3	22	*	39	132
		Terphenyl-d14	100	45.4	45	*	54	127
Q1068-01MSD	TR-06-1-10-2025MSD	2-Fluorophenol	150	74.2	49		35	115
		Phenol-d6	150	88.2	59		34	127
		Nitrobenzene-d5	100	62.1	62		37	122
		2-Fluorobiphenyl	100	62.6	63		44	115
		2,4,6-Tribromophenol	150	37.1	25	*	39	132
		Terphenyl-d14	100	52.3	52	*	54	127
Q1069-01	RW7B-CARBON-20250109	2-Fluorophenol	150	7.86	5	*	35	115
		Phenol-d6	150	8.17	5	*	34	127
		Nitrobenzene-d5	100	8.53	9	*	37	122
		2-Fluorobiphenyl	100	8.53	9	*	44	115
		2,4,6-Tribromophenol	150	9.68	6	*	39	132
		Terphenyl-d14	100	7.98	8	*	54	127

Surrogate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166061BL	PB166061BL	2-Fluorophenol	150	138	92		35	115
		Phenol-d6	150	135	90		34	127
		Nitrobenzene-d5	100	96.3	96		37	122
		2-Fluorobiphenyl	100	96.1	96		44	115
		2,4,6-Tribromophenol	150	148	99		39	132
		Terphenyl-d14	100	82.0	82		54	127
PB166061BS	PB166061BS	2-Fluorophenol	150	139	92		35	115
		Phenol-d6	150	138	92		34	127
		Nitrobenzene-d5	100	95.6	96		37	122
		2-Fluorobiphenyl	100	94.8	95		44	115
		2,4,6-Tribromophenol	150	156	104		39	132
		Terphenyl-d14	100	96.5	97		54	127
Q1069-01RX	RW7B-CARBON-20250109RX	2-Fluorophenol	150	49.5	33	*	35	115
		Phenol-d6	150	48.3	32	*	34	127
		Nitrobenzene-d5	100	38.0	38		37	122
		2-Fluorobiphenyl	100	39.2	39	*	44	115
		2,4,6-Tribromophenol	150	50.3	34	*	39	132
		Terphenyl-d14	100	28.7	29	*	54	127

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q1068-01MS		Client Sample ID: TR-06-1-10-2025MS		DataFile: BF141175.D							
Benzaldehyde	1100	0	120	ug/Kg	11				10	161	
Phenol	1100	0	630	ug/Kg	57				34	121	
bis(2-Chloroethyl)ether	1100	0	670	ug/Kg	61				31	120	
2-Chlorophenol	1100	0	620	ug/Kg	56				34	121	
2-Methylphenol	1100	0	640	ug/Kg	58				32	122	
2,2-oxybis(1-Chloropropane)	1100	0	640	ug/Kg	58				33	131	
Acetophenone	1100	0	690	ug/Kg	63				33	115	
3+4-Methylphenols	1100	0	640	ug/Kg	58				34	119	
N-Nitroso-di-n-propylamine	1100	0	650	ug/Kg	59				36	120	
Hexachloroethane	1100	0	620	ug/Kg	56				28	117	
Nitrobenzene	1100	0	640	ug/Kg	58				34	122	
Isophorone	1100	0	700	ug/Kg	64				30	122	
2-Nitrophenol	1100	0	530	ug/Kg	48				36	123	
2,4-Dimethylphenol	1100	0	790	ug/Kg	72				30	127	
bis(2-Chloroethoxy)methane	1100	0	690	ug/Kg	63				36	121	
2,4-Dichlorophenol	1100	0	600	ug/Kg	55				40	122	
Naphthalene	1100	0	690	ug/Kg	63				35	123	
4-Chloroaniline	1100	0	250	ug/Kg	23				17	106	
Hexachlorobutadiene	1100	0	650	ug/Kg	59				32	123	
Caprolactam	1100	0	580	ug/Kg	53				46	117	
4-Chloro-3-methylphenol	1100	0	620	ug/Kg	56				45	122	
2-Methylnaphthalene	1100	0	680	ug/Kg	62				38	122	
Hexachlorocyclopentadiene	2200	0	1400	ug/Kg	64				43	112	
2,4,6-Trichlorophenol	1100	0	380	ug/Kg	35	*			39	126	
2,4,5-Trichlorophenol	1100	0	490	ug/Kg	45				41	124	
1,1-Biphenyl	1100	0	740	ug/Kg	67				40	117	
2-Chloronaphthalene	1100	0	680	ug/Kg	62				41	114	
2-Nitroaniline	1100	0	690	ug/Kg	63				44	127	
Dimethylphthalate	1100	0	730	ug/Kg	66				48	124	
Acenaphthylene	1100	110	850	ug/Kg	67				32	132	
2,6-Dinitrotoluene	1100	0	650	ug/Kg	59				46	124	
3-Nitroaniline	1100	0	500	ug/Kg	45				33	119	
Acenaphthene	1100	0	670	ug/Kg	61				40	123	
2,4-Dinitrophenol	2200	0	0	ug/Kg	0	*			15	130	
4-Nitrophenol	2200	0	460	ug/Kg	21	*			30	132	
Dibenzofuran	1100	0	680	ug/Kg	62				44	120	
2,4-Dinitrotoluene	1100	0	620	ug/Kg	56				48	126	
Diethylphthalate	1100	0	690	ug/Kg	63				50	124	
4-Chlorophenyl-phenylether	1100	0	660	ug/Kg	60				45	121	
Fluorene	1100	0	680	ug/Kg	62				43	125	
4-Nitroaniline	1100	0	530	ug/Kg	48				35	115	
4,6-Dinitro-2-methylphenol	1100	0	130	ug/Kg	12	*			29	132	
N-Nitrosodiphenylamine	1100	0	840	ug/Kg	76				38	127	
4-Bromophenyl-phenylether	1100	0	800	ug/Kg	73				46	124	
Hexachlorobenzene	1100	0	740	ug/Kg	67				45	122	
Atrazine	1100	0	980	ug/Kg	89				47	127	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	2200	0	530	ug/Kg	24	*			25	133	
Phenanthrene	1100	130	880	ug/Kg	68				50	121	
Anthracene	1100	100	880	ug/Kg	71				47	123	
Carbazole	1100	0	730	ug/Kg	66				50	123	
Di-n-butylphthalate	1100	0	790	ug/Kg	72				51	128	
Fluoranthene	1100	190	1000	ug/Kg	74				50	127	
Pyrene	1100	210	750	ug/Kg	49				47	127	
Butylbenzylphthalate	1100	0	610	ug/Kg	55				48	132	
3,3-Dichlorobenzidine	1100	0	450	ug/Kg	41				22	121	
Benzo(a)anthracene	1100	160	920	ug/Kg	69				49	126	
Chrysene	1100	130	830	ug/Kg	64				50	124	
bis(2-Ethylhexyl)phthalate	1100	0	710	ug/Kg	65				51	133	
Di-n-octyl phthalate	1100	0	860	ug/Kg	78				45	140	
Benzo(b)fluoranthene	1100	230	990	ug/Kg	69				45	132	
Benzo(k)fluoranthene	1100	110	910	ug/Kg	73				47	132	
Benzo(a)pyrene	1100	280	1100	ug/Kg	75				45	129	
Indeno(1,2,3-cd)pyrene	1100	130	660	ug/Kg	48				45	133	
Dibenz(a,h)anthracene	1100	0	550	ug/Kg	50				45	134	
Benzo(g,h,i)perylene	1100	200	690	ug/Kg	45				43	134	
1,2,4,5-Tetrachlorobenzene	1100	0	740	ug/Kg	67				37	119	
1,4-Dioxane	1100	0	530	ug/Kg	48	*			70	130	
2,3,4,6-Tetrachlorophenol	1100	0	250	ug/Kg	23	*			44	125	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1068-01MSD	Client Sample ID:	TR-06-1-10-2025MSD					DataFile:	BF141176.D		
Benzaldehyde	1100	0	130	ug/Kg	12		9		10	161	20
Phenol	1100	0	700	ug/Kg	64		12		34	121	20
bis(2-Chloroethyl)ether	1100	0	700	ug/Kg	64		5		31	120	20
2-Chlorophenol	1100	0	670	ug/Kg	61		9		34	121	20
2-Methylphenol	1100	0	700	ug/Kg	64		10		32	122	20
2,2-oxybis(1-Chloropropane)	1100	0	660	ug/Kg	60		3		33	131	20
Acetophenone	1100	0	690	ug/Kg	63		0		33	115	20
3+4-Methylphenols	1100	0	710	ug/Kg	65		11		34	119	20
N-Nitroso-di-n-propylamine	1100	0	690	ug/Kg	63		7		36	120	20
Hexachloroethane	1100	0	640	ug/Kg	58		4		28	117	20
Nitrobenzene	1100	0	640	ug/Kg	58		0		34	122	20
Isophorone	1100	0	700	ug/Kg	64		0		30	122	20
2-Nitrophenol	1100	0	550	ug/Kg	50		4		36	123	20
2,4-Dimethylphenol	1100	0	810	ug/Kg	74		3		30	127	20
bis(2-Chloroethoxy)methane	1100	0	680	ug/Kg	62		2		36	121	20
2,4-Dichlorophenol	1100	0	640	ug/Kg	58		5		40	122	20
Naphthalene	1100	0	700	ug/Kg	64		2		35	123	20
4-Chloroaniline	1100	0	290	ug/Kg	26		12		17	106	20
Hexachlorobutadiene	1100	0	630	ug/Kg	57		3		32	123	20
Caprolactam	1100	0	670	ug/Kg	61		14		46	117	20
4-Chloro-3-methylphenol	1100	0	710	ug/Kg	65		15		45	122	20
2-Methylnaphthalene	1100	0	710	ug/Kg	65		5		38	122	20
Hexachlorocyclopentadiene	2200	0	970	ug/Kg	44		37	*	43	112	20
2,4,6-Trichlorophenol	1100	0	390	ug/Kg	35	*	0		39	126	20
2,4,5-Trichlorophenol	1100	0	510	ug/Kg	46		2		41	124	20
1,1-Biphenyl	1100	0	720	ug/Kg	65		3		40	117	20
2-Chloronaphthalene	1100	0	680	ug/Kg	62		0		41	114	20
2-Nitroaniline	1100	0	730	ug/Kg	66		5		44	127	20
Dimethylphthalate	1100	0	720	ug/Kg	65		2		48	124	20
Acenaphthylene	1100	110	850	ug/Kg	67		0		32	132	20
2,6-Dinitrotoluene	1100	0	680	ug/Kg	62		5		46	124	20
3-Nitroaniline	1100	0	560	ug/Kg	51		13		33	119	20
Acenaphthene	1100	0	680	ug/Kg	62		2		40	123	20
2,4-Dinitrophenol	2200	0	0	ug/Kg	0	*	0		15	130	20
4-Nitrophenol	2200	0	540	ug/Kg	25	*	17		30	132	20
Dibenzofuran	1100	0	700	ug/Kg	64		3		44	120	20
2,4-Dinitrotoluene	1100	0	700	ug/Kg	64		13		48	126	20
Diethylphthalate	1100	0	710	ug/Kg	65		3		50	124	20
4-Chlorophenyl-phenylether	1100	0	700	ug/Kg	64		6		45	121	20
Fluorene	1100	0	720	ug/Kg	65		5		43	125	20
4-Nitroaniline	1100	0	620	ug/Kg	56		15		35	115	20
4,6-Dinitro-2-methylphenol	1100	0	99.8	ug/Kg	9	*	29	*	29	132	20
N-Nitrosodiphenylamine	1100	0	840	ug/Kg	76		0		38	127	20
4-Bromophenyl-phenylether	1100	0	780	ug/Kg	71		3		46	124	20
Hexachlorobenzene	1100	0	740	ug/Kg	67		0		45	122	20
Atrazine	1100	0	990	ug/Kg	90		1		47	127	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	2200	0	510	ug/Kg	23	*	4		25	133	20
Phenanthrene	1100	130	890	ug/Kg	69		1		50	121	20
Anthracene	1100	100	900	ug/Kg	73		3		47	123	20
Carbazole	1100	0	730	ug/Kg	66		0		50	123	20
Di-n-butylphthalate	1100	0	780	ug/Kg	71		1		51	128	20
Fluoranthene	1100	190	930	ug/Kg	67		10		50	127	20
Pyrene	1100	210	870	ug/Kg	60		20		47	127	20
Butylbenzylphthalate	1100	0	690	ug/Kg	63		14		48	132	20
3,3-Dichlorobenzidine	1100	0	460	ug/Kg	42		2		22	121	20
Benzo(a)anthracene	1100	160	870	ug/Kg	65		6		49	126	20
Chrysene	1100	130	900	ug/Kg	70		9		50	124	20
bis(2-Ethylhexyl)phthalate	1100	0	770	ug/Kg	70		7		51	133	20
Di-n-octyl phthalate	1100	0	830	ug/Kg	75		4		45	140	20
Benzo(b)fluoranthene	1100	230	1100	ug/Kg	79		14		45	132	20
Benzo(k)fluoranthene	1100	110	890	ug/Kg	71		3		47	132	20
Benzo(a)pyrene	1100	280	1200	ug/Kg	84		11		45	129	20
Indeno(1,2,3-cd)pyrene	1100	130	730	ug/Kg	55		14		45	133	20
Dibenz(a,h)anthracene	1100	0	610	ug/Kg	55		10		45	134	20
Benzo(g,h,i)perylene	1100	200	770	ug/Kg	52		14		43	134	20
1,2,4,5-Tetrachlorobenzene	1100	0	720	ug/Kg	65		3		37	119	20
1,4-Dioxane	1100	0	540	ug/Kg	49	*	2		70	130	20
2,3,4,6-Tetrachlorophenol	1100	0	290	ug/Kg	26	*	12		44	125	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E DataFile: BF141165.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB166035BS	Benzaldehyde	1700	280	ug/Kg	16				10	161		
	Phenol	1700	1500	ug/Kg	88				34	121		
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				31	120		
	2-Chlorophenol	1700	1600	ug/Kg	94				34	121		
	2-Methylphenol	1700	1500	ug/Kg	88				32	122		
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				33	131		
	Acetophenone	1700	1500	ug/Kg	88				33	115		
	3+4-Methylphenols	1700	1500	ug/Kg	88				34	119		
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				36	120		
	Hexachloroethane	1700	1500	ug/Kg	88				28	117		
	Nitrobenzene	1700	1400	ug/Kg	82				34	122		
	Isophorone	1700	1500	ug/Kg	88				30	122		
	2-Nitrophenol	1700	1600	ug/Kg	94				36	123		
	2,4-Dimethylphenol	1700	1800	ug/Kg	106				30	127		
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				36	121		
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				40	122		
	Naphthalene	1700	1500	ug/Kg	88				35	123		
	4-Chloroaniline	1700	740	ug/Kg	44				17	106		
	Hexachlorobutadiene	1700	1500	ug/Kg	88				32	123		
	Caprolactam	1700	1500	ug/Kg	88				46	117		
	4-Chloro-3-methylphenol	1700	1600	ug/Kg	94				45	122		
	2-Methylnaphthalene	1700	1500	ug/Kg	88				38	122		
	Hexachlorocyclopentadiene	3300	5900	ug/Kg	179		*		43	112		
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				39	126		
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				41	124		
	1,1-Biphenyl	1700	1500	ug/Kg	88				40	117		
	2-Chloronaphthalene	1700	1500	ug/Kg	88				41	114		
	2-Nitroaniline	1700	1600	ug/Kg	94				44	127		
	Dimethylphthalate	1700	1500	ug/Kg	88				48	124		
	Acenaphthylene	1700	1600	ug/Kg	94				32	132		
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				46	124		
	3-Nitroaniline	1700	940	ug/Kg	55				33	119		
	Acenaphthene	1700	1700	ug/Kg	100				40	123		
	2,4-Dinitrophenol	3300	3600	ug/Kg	109				15	130		
	4-Nitrophenol	3300	3400	ug/Kg	103				30	132		
	Dibenzofuran	1700	1500	ug/Kg	88				44	120		
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				48	126		
	Diethylphthalate	1700	1500	ug/Kg	88				50	124		
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				45	121		
	Fluorene	1700	1500	ug/Kg	88				43	125		
	4-Nitroaniline	1700	1600	ug/Kg	94				35	115		
	4,6-Dinitro-2-methylphenol	1700	1800	ug/Kg	106				29	132		
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				38	127		
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				46	124		

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E DataFile: BF141165.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB166035BS	Hexachlorobenzene	1700	1600	ug/Kg	94				45	122	
	Atrazine	1700	2000	ug/Kg	118				47	127	
	Pentachlorophenol	3300	3200	ug/Kg	97				25	133	
	Phenanthrene	1700	1600	ug/Kg	94				50	121	
	Anthracene	1700	1700	ug/Kg	100				47	123	
	Carbazole	1700	1700	ug/Kg	100				50	123	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				51	128	
	Fluoranthene	1700	1700	ug/Kg	100				50	127	
	Pyrene	1700	1500	ug/Kg	88				47	127	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				48	132	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59				22	121	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				49	126	
	Chrysene	1700	1500	ug/Kg	88				50	124	
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				51	133	
	Di-n-octyl phthalate	1700	1500	ug/Kg	88				45	140	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				45	132	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				47	132	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				45	129	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				45	133	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				45	134	
	Benzo(g,h,i)perylene	1700	1400	ug/Kg	82				43	134	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				37	119	
	1,4-Dioxane	1700	1300	ug/Kg	76				70	130	
	2,3,4,6-Tetrachlorophenol	1700	1600	ug/Kg	94				44	125	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E

DataFile: BF141172.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB166061BS	Benzaldehyde	1700	310	ug/Kg	18				10	161	
	Phenol	1700	1700	ug/Kg	100				34	121	
	bis(2-Chloroethyl)ether	1700	1600	ug/Kg	94				31	120	
	2-Chlorophenol	1700	1700	ug/Kg	100				34	121	
	2-Methylphenol	1700	1700	ug/Kg	100				32	122	
	2,2-oxybis(1-Chloropropane)	1700	1600	ug/Kg	94				33	131	
	Acetophenone	1700	1700	ug/Kg	100				33	115	
	3+4-Methylphenols	1700	1700	ug/Kg	100				34	119	
	N-Nitroso-di-n-propylamine	1700	1600	ug/Kg	94				36	120	
	Hexachloroethane	1700	1600	ug/Kg	94				28	117	
	Nitrobenzene	1700	1600	ug/Kg	94				34	122	
	Isophorone	1700	1700	ug/Kg	100				30	122	
	2-Nitrophenol	1700	1800	ug/Kg	106				36	123	
	2,4-Dimethylphenol	1700	2000	ug/Kg	118				30	127	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				36	121	
	2,4-Dichlorophenol	1700	1700	ug/Kg	100				40	122	
	Naphthalene	1700	1700	ug/Kg	100				35	123	
	4-Chloroaniline	1700	690	ug/Kg	41				17	106	
	Hexachlorobutadiene	1700	1600	ug/Kg	94				32	123	
	Caprolactam	1700	1700	ug/Kg	100				46	117	
	4-Chloro-3-methylphenol	1700	1700	ug/Kg	100				45	122	
	2-Methylnaphthalene	1700	1700	ug/Kg	100				38	122	
	Hexachlorocyclopentadiene	3300	6300	ug/Kg	191		*		43	112	
	2,4,6-Trichlorophenol	1700	1800	ug/Kg	106				39	126	
	2,4,5-Trichlorophenol	1700	1700	ug/Kg	100				41	124	
	1,1-Biphenyl	1700	1700	ug/Kg	100				40	117	
	2-Chloronaphthalene	1700	1600	ug/Kg	94				41	114	
	2-Nitroaniline	1700	1700	ug/Kg	100				44	127	
	Dimethylphthalate	1700	1700	ug/Kg	100				48	124	
	Acenaphthylene	1700	1800	ug/Kg	106				32	132	
	2,6-Dinitrotoluene	1700	1700	ug/Kg	100				46	124	
	3-Nitroaniline	1700	960	ug/Kg	56				33	119	
	Acenaphthene	1700	1900	ug/Kg	112				40	123	
	2,4-Dinitrophenol	3300	4100	ug/Kg	124				15	130	
	4-Nitrophenol	3300	3700	ug/Kg	112				30	132	
	Dibenzofuran	1700	1700	ug/Kg	100				44	120	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				48	126	
	Diethylphthalate	1700	1700	ug/Kg	100				50	124	
	4-Chlorophenyl-phenylether	1700	1700	ug/Kg	100				45	121	
	Fluorene	1700	1700	ug/Kg	100				43	125	
	4-Nitroaniline	1700	1700	ug/Kg	100				35	115	
	4,6-Dinitro-2-methylphenol	1700	2000	ug/Kg	118				29	132	
	N-Nitrosodiphenylamine	1700	1700	ug/Kg	100				38	127	
	4-Bromophenyl-phenylether	1700	1700	ug/Kg	100				46	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E

DataFile: BF141172.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB166061BS	Hexachlorobenzene	1700	1800	ug/Kg	106				45	122	
	Atrazine	1700	2200	ug/Kg	129		*		47	127	
	Pentachlorophenol	3300	3500	ug/Kg	106				25	133	
	Phenanthrene	1700	1800	ug/Kg	106				50	121	
	Anthracene	1700	1900	ug/Kg	112				47	123	
	Carbazole	1700	1800	ug/Kg	106				50	123	
	Di-n-butylphthalate	1700	1700	ug/Kg	100				51	128	
	Fluoranthene	1700	1900	ug/Kg	112				50	127	
	Pyrene	1700	1700	ug/Kg	100				47	127	
	Butylbenzylphthalate	1700	1800	ug/Kg	106				48	132	
	3,3-Dichlorobenzidine	1700	1100	ug/Kg	65				22	121	
	Benzo(a)anthracene	1700	1700	ug/Kg	100				49	126	
	Chrysene	1700	1700	ug/Kg	100				50	124	
	bis(2-Ethylhexyl)phthalate	1700	1700	ug/Kg	100				51	133	
	Di-n-octyl phthalate	1700	1700	ug/Kg	100				45	140	
	Benzo(b)fluoranthene	1700	1800	ug/Kg	106				45	132	
	Benzo(k)fluoranthene	1700	1800	ug/Kg	106				47	132	
	Benzo(a)pyrene	1700	1900	ug/Kg	112				45	129	
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				45	133	
	Dibenz(a,h)anthracene	1700	1700	ug/Kg	100				45	134	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				43	134	
	1,2,4,5-Tetrachlorobenzene	1700	1700	ug/Kg	100				37	119	
	1,4-Dioxane	1700	1400	ug/Kg	82				70	130	
	2,3,4,6-Tetrachlorophenol	1700	1800	ug/Kg	106				44	125	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166035BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1069

SAS No.: Q1069 SDG NO.: Q1069

Lab File ID: BF141169.D

Lab Sample ID: PB166035BL

Instrument ID: BNA_F

Date Extracted: 01/13/2025

Matrix: (soil/water) SOIL

Date Analyzed: 01/15/2025

Level: (low/med) LOW

Time Analyzed: 12:11

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166035BS	PB166035BS	BF141165.D	01/15/2025
TR-06-1-10-2025MS	Q1068-01MS	BF141175.D	01/15/2025
TR-06-1-10-2025MSD	Q1068-01MSD	BF141176.D	01/15/2025
RW7B-CARBON-20250109	Q1069-01	BF141173.D	01/15/2025

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166061BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1069

SAS No.: Q1069 SDG NO.: Q1069

Lab File ID: BF141171.D

Lab Sample ID: PB166061BL

Instrument ID: BNA_F

Date Extracted: 01/15/2025

Matrix: (soil/water) SOIL

Date Analyzed: 01/15/2025

Level: (low/med) LOW

Time Analyzed: 13:12

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166061BS	PB166061BS	BF141172.D	01/15/2025
RW7B-CARBON-20250109RX	Q1069-01RX	BF141174.D	01/15/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1069

SDG NO.: Q1069

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1069 SDG NO.: Q1069

Lab File ID: BF141162.D

DFTPP Injection Date: 01/15/2025

Instrument ID: BNA_F

DFTPP Injection Time: 09:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.0
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.3 (0.8) 1
127	10.0 - 80.0% of mass 198	48.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	30.4
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.5 (18.5) 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	BF141163.D	01/15/2025	09:34
PB166035BS	PB166035BS	BF141165.D	01/15/2025	10:26
PB166035BL	PB166035BL	BF141169.D	01/15/2025	12:11
PB166061BL	PB166061BL	BF141171.D	01/15/2025	13:12
PB166061BS	PB166061BS	BF141172.D	01/15/2025	13:38
RW7B-CARBON-20250109	Q1069-01	BF141173.D	01/15/2025	14:13
RW7B-CARBON-20250109RX	Q1069-01RX	BF141174.D	01/15/2025	14:39
TR-06-1-10-2025MS	Q1068-01MS	BF141175.D	01/15/2025	15:05
TR-06-1-10-2025MSD	Q1068-01MSD	BF141176.D	01/15/2025	16:40
SSTDCCC040EC	SSTDCCC040	BF141177.D	01/15/2025	17:10

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/15/2025

Lab File ID: BF141163.D Time Analyzed: 09:34

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	160442	6.822	621128	8.10	331065	9.86
UPPER LIMIT	320884	7.322	1242260	8.604	662130	10.363
LOWER LIMIT	80221	6.322	310564	7.604	165533	9.363
EPA SAMPLE NO.						
01 PB166035BS	141578	6.82	559409	8.10	296383	9.86
02 PB166035BL	136764	6.82	539364	8.10	276861	9.86
03 PB166061BL	139696	6.82	549482	8.10	287376	9.86
04 PB166061BS	125655	6.82	494978	8.10	264175	9.86
05 TR-06-1-10-2025MS	151239	6.82	561441	8.10	265282	9.86
06 TR-06-1-10-2025MSD	143081	6.82	569188	8.10	294771	9.86
07 RW7B-CARBON-20250109	131077	6.82	520865	8.10	287776	9.86
08 RW7B-CARBON-20250109RX	130568	6.82	511298	8.10	277574	9.86

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/15/2025

Lab File ID: BF141163.D Time Analyzed: 09:34

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	558521	11.345	351337	13.986	315529	15.445
UPPER LIMIT	1117040	11.845	702674	14.486	631058	15.945
LOWER LIMIT	279261	10.845	175669	13.486	157765	14.945
EPA SAMPLE NO.						
01 PB166035BS	515619	11.35	346259	13.99	300143	15.45
02 PB166035BL	476305	11.34	381699	13.98	303475	15.44
03 PB166061BL	484833	11.35	391933	13.98	312524	15.45
04 PB166061BS	452645	11.35	303424	13.99	262459	15.45
05 TR-06-1-10-2025MS	349564	11.35	322664	13.99	314686	15.45
06 TR-06-1-10-2025MSD	427420	11.35	307236	13.99	256318	15.47
07 RW7B-CARBON-20250109	491216	11.34	326348	13.98	301825	15.44
08 RW7B-CARBON-20250109RX	450100	11.34	280945	13.98	283392	15.44

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166035BL		SDG No.:	Q1069
Lab Sample ID:	PB166035BL		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.03	Units: g	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 :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141169.D	1	01/13/25 08:54	01/15/25 12:11	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	270	U	180	270	330	ug/Kg
108-95-2	Phenol	130	U	82.8	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	130	U	83.6	130	170	ug/Kg
95-57-8	2-Chlorophenol	130	U	83.4	130	170	ug/Kg
95-48-7	2-Methylphenol	130	U	80.5	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	130	U	90.8	130	170	ug/Kg
98-86-2	Acetophenone	130	U	86.8	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	270	U	79.7	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	79.9	U	40.3	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	130	U	82.9	130	170	ug/Kg
98-95-3	Nitrobenzene	130	U	90.7	130	170	ug/Kg
78-59-1	Isophorone	130	U	84.5	130	170	ug/Kg
88-75-5	2-Nitrophenol	130	U	94.4	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	130	U	93.1	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	130	U	85.7	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	130	U	75.4	130	170	ug/Kg
91-20-3	Naphthalene	130	U	82.5	130	170	ug/Kg
106-47-8	4-Chloroaniline	130	U	82.5	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	130	U	83.2	130	170	ug/Kg
105-60-2	Caprolactam	270	U	86.7	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	130	U	77.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	130	U	82.4	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	270	U	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	130	U	71.3	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	130	U	73.9	130	170	ug/Kg
92-52-4	1,1-Biphenyl	130	U	87.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	130	U	83.2	130	170	ug/Kg
88-74-4	2-Nitroaniline	130	U	94.9	130	170	ug/Kg
131-11-3	Dimethylphthalate	130	U	81.6	130	170	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:		
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:		
Client Sample ID:	PB166035BL		SDG No.:	Q1069	
Lab Sample ID:	PB166035BL		Matrix:	SOIL	
Analytical Method:	SW8270		% Solid:	100	
Sample Wt/Vol:	30.03	Units: g	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 :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141169.D	1	01/13/25 08:54	01/15/25 12:11	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	130	U	86.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	130	U	83.1	130	170	ug/Kg
99-09-2	3-Nitroaniline	130	U	89.1	130	170	ug/Kg
83-32-9	Acenaphthene	130	U	81.0	130	170	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	270	U	120	270	330	ug/Kg
132-64-9	Dibenzofuran	130	U	84.3	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	130	U	86.1	130	170	ug/Kg
84-66-2	Diethylphthalate	130	U	80.0	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	130	U	85.5	130	170	ug/Kg
86-73-7	Fluorene	130	U	85.4	130	170	ug/Kg
100-01-6	4-Nitroaniline	130	U	110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	270	U	120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	130	U	81.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	130	U	78.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	130	U	84.9	130	170	ug/Kg
1912-24-9	Atrazine	130	U	91.3	130	170	ug/Kg
87-86-5	Pentachlorophenol	270	U	77.2	270	330	ug/Kg
85-01-8	Phenanthrene	130	U	83.9	130	170	ug/Kg
120-12-7	Anthracene	130	U	84.3	130	170	ug/Kg
86-74-8	Carbazole	130	U	80.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	130	U	84.2	130	170	ug/Kg
206-44-0	Fluoranthene	130	U	81.6	130	170	ug/Kg
129-00-0	Pyrene	130	U	82.9	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	96.7	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	270	U	98.5	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	130	U	80.6	130	170	ug/Kg
218-01-9	Chrysene	130	U	79.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	130	U	90.9	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	270	U	110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	U	81.0	130	170	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166035BL		SDG No.:	Q1069
Lab Sample ID:	PB166035BL		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.03	Units: g	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 :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141169.D	1	01/13/25 08:54	01/15/25 12:11	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	130	U	82.5	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	130	U	92.9	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	130	U	78.0	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	130	U	81.1	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	130	U	80.0	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U	86.7	130	170	ug/Kg
123-91-1	1,4-Dioxane	130	U	110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	130	U	74.6	130	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	137		35 - 115		92%	SPK: 150
13127-88-3	Phenol-d6	136		34 - 127		90%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.4		37 - 122		96%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.6		44 - 115		98%	SPK: 100
118-79-6	2,4,6-Tribromophenol	153		39 - 132		102%	SPK: 150
1718-51-0	Terphenyl-d14	82.6		54 - 127		83%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	137000	6.816				
1146-65-2	Naphthalene-d8	539000	8.098				
15067-26-2	Acenaphthene-d10	277000	9.857				
1517-22-2	Phenanthrene-d10	476000	11.339				
1719-03-5	Chrysene-d12	382000	13.98				
1520-96-3	Perylene-d12	303000	15.439				
TENTATIVE IDENTIFIED COMPOUNDS							
004744-10-9	Propane, 1,1-dimethoxy-	110	J			2.23	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	100	A			5.05	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166035BL		SDG No.:	Q1069
Lab Sample ID:	PB166035BL		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.03	Units: g	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 :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141169.D	1	01/13/25 08:54	01/15/25 12:11	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
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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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:		
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:		
Client Sample ID:	PB166061BL		SDG No.:	Q1069	
Lab Sample ID:	PB166061BL		Matrix:	SOIL	
Analytical Method:	SW8270		% Solid:	100	
Sample Wt/Vol:	30.02	Units: g	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 :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141171.D	1	01/15/25 09:15	01/15/25 13:12	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	270	U	180	270	330	ug/Kg
108-95-2	Phenol	130	U	82.8	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	130	U	83.6	130	170	ug/Kg
95-57-8	2-Chlorophenol	130	U	83.4	130	170	ug/Kg
95-48-7	2-Methylphenol	130	U	80.5	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	130	U	90.8	130	170	ug/Kg
98-86-2	Acetophenone	130	U	86.8	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	270	U	79.7	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	79.9	U	40.3	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	130	U	82.9	130	170	ug/Kg
98-95-3	Nitrobenzene	130	U	90.7	130	170	ug/Kg
78-59-1	Isophorone	130	U	84.5	130	170	ug/Kg
88-75-5	2-Nitrophenol	130	U	94.4	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	130	U	93.1	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	130	U	85.7	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	130	U	75.4	130	170	ug/Kg
91-20-3	Naphthalene	130	U	82.5	130	170	ug/Kg
106-47-8	4-Chloroaniline	130	U	82.5	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	130	U	83.2	130	170	ug/Kg
105-60-2	Caprolactam	270	U	86.7	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	130	U	77.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	130	U	82.4	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	270	U	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	130	U	71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	130	U	74.0	130	170	ug/Kg
92-52-4	1,1-Biphenyl	130	U	87.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	130	U	83.2	130	170	ug/Kg
88-74-4	2-Nitroaniline	130	U	94.9	130	170	ug/Kg
131-11-3	Dimethylphthalate	130	U	81.6	130	170	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166061BL		SDG No.:	Q1069
Lab Sample ID:	PB166061BL		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.02	Units: g	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 :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141171.D	1	01/15/25 09:15	01/15/25 13:12	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	130	U	86.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	130	U	83.1	130	170	ug/Kg
99-09-2	3-Nitroaniline	130	U	89.1	130	170	ug/Kg
83-32-9	Acenaphthene	130	U	81.0	130	170	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	270	U	120	270	330	ug/Kg
132-64-9	Dibenzofuran	130	U	84.3	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	130	U	86.1	130	170	ug/Kg
84-66-2	Diethylphthalate	130	U	80.0	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	130	U	85.5	130	170	ug/Kg
86-73-7	Fluorene	130	U	85.4	130	170	ug/Kg
100-01-6	4-Nitroaniline	130	U	110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	270	U	120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	130	U	81.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	130	U	78.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	130	U	84.9	130	170	ug/Kg
1912-24-9	Atrazine	130	U	91.3	130	170	ug/Kg
87-86-5	Pentachlorophenol	270	U	77.2	270	330	ug/Kg
85-01-8	Phenanthrene	130	U	83.9	130	170	ug/Kg
120-12-7	Anthracene	130	U	84.3	130	170	ug/Kg
86-74-8	Carbazole	130	U	80.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	130	U	84.2	130	170	ug/Kg
206-44-0	Fluoranthene	130	U	81.6	130	170	ug/Kg
129-00-0	Pyrene	130	U	82.9	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	96.7	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	270	U	98.5	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	130	U	80.6	130	170	ug/Kg
218-01-9	Chrysene	130	U	79.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	130	U	90.9	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	270	U	110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	U	81.0	130	170	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166061BL		SDG No.:	Q1069
Lab Sample ID:	PB166061BL		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.02	Units: g	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 :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141171.D	1	01/15/25 09:15	01/15/25 13:12	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	130	U	82.5	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	130	U	92.9	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	130	U	78.0	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	130	U	81.1	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	130	U	80.0	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U	86.7	130	170	ug/Kg
123-91-1	1,4-Dioxane	130	U	110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	130	U	74.7	130	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	138		35 - 115		92%	SPK: 150
13127-88-3	Phenol-d6	135		34 - 127		90%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.3		37 - 122		96%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.1		44 - 115		96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	148		39 - 132		99%	SPK: 150
1718-51-0	Terphenyl-d14	82.0		54 - 127		82%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	140000	6.822				
1146-65-2	Naphthalene-d8	549000	8.098				
15067-26-2	Acenaphthene-d10	287000	9.857				
1517-22-2	Phenanthrene-d10	485000	11.345				
1719-03-5	Chrysene-d12	392000	13.98				
1520-96-3	Perylene-d12	313000	15.451				
TENTATIVE IDENTIFIED COMPOUNDS							
004744-10-9	Propane, 1,1-dimethoxy-	110	J			2.23	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	100	A			5.05	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166061BL		SDG No.:	Q1069
Lab Sample ID:	PB166061BL		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.02	Units: g	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 :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141171.D	1	01/15/25 09:15	01/15/25 13:12	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
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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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166035BS		SDG No.:	Q1069
Lab Sample ID:	PB166035BS		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.02	Units: g	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 :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141165.D	1	01/13/25 08:54	01/15/25 10:26	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	280	J	180	270	330	ug/Kg
108-95-2	Phenol	1500		82.8	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		83.6	130	170	ug/Kg
95-57-8	2-Chlorophenol	1600		83.4	130	170	ug/Kg
95-48-7	2-Methylphenol	1500		80.5	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.8	130	170	ug/Kg
98-86-2	Acetophenone	1500		86.8	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.7	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		82.9	130	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.7	130	170	ug/Kg
78-59-1	Isophorone	1500		84.5	130	170	ug/Kg
88-75-5	2-Nitrophenol	1600		94.4	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1800		93.1	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		85.7	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		75.4	130	170	ug/Kg
91-20-3	Naphthalene	1500		82.5	130	170	ug/Kg
106-47-8	4-Chloroaniline	740		82.5	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		83.2	130	170	ug/Kg
105-60-2	Caprolactam	1500		86.7	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		77.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	1500		82.4	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5900	E	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		74.0	130	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.2	130	170	ug/Kg
88-74-4	2-Nitroaniline	1600		94.9	130	170	ug/Kg
131-11-3	Dimethylphthalate	1500		81.6	130	170	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166035BS		SDG No.:	Q1069
Lab Sample ID:	PB166035BS		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.02	Units: g	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 :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141165.D	1	01/13/25 08:54	01/15/25 10:26	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		86.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		83.1	130	170	ug/Kg
99-09-2	3-Nitroaniline	940		89.1	130	170	ug/Kg
83-32-9	Acenaphthene	1700		81.0	130	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3600	E	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	3400	E	120	270	330	ug/Kg
132-64-9	Dibenzofuran	1500		84.3	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		86.1	130	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.0	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		85.5	130	170	ug/Kg
86-73-7	Fluorene	1500		85.4	130	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		78.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		84.9	130	170	ug/Kg
1912-24-9	Atrazine	2000		91.3	130	170	ug/Kg
87-86-5	Pentachlorophenol	3200	E	77.2	270	330	ug/Kg
85-01-8	Phenanthrene	1600		83.9	130	170	ug/Kg
120-12-7	Anthracene	1700		84.3	130	170	ug/Kg
86-74-8	Carbazole	1700		80.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		84.2	130	170	ug/Kg
206-44-0	Fluoranthene	1700		81.6	130	170	ug/Kg
129-00-0	Pyrene	1500		82.9	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		96.7	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		98.5	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.6	130	170	ug/Kg
218-01-9	Chrysene	1500		79.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		90.9	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		81.0	130	170	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166035BS		SDG No.:	Q1069
Lab Sample ID:	PB166035BS		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.02	Units: g	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 :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141165.D	1	01/13/25 08:54	01/15/25 10:26	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		82.5	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		92.9	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		78.0	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		81.1	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		80.0	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		86.7	130	170	ug/Kg
123-91-1	1,4-Dioxane	1300		110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		74.7	130	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	128		35 - 115		85%	SPK: 150
13127-88-3	Phenol-d6	127		34 - 127		85%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.7		37 - 122		89%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.5		44 - 115		89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	147		39 - 132		98%	SPK: 150
1718-51-0	Terphenyl-d14	88.7		54 - 127		89%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	142000	6.822				
1146-65-2	Naphthalene-d8	559000	8.104				
15067-26-2	Acenaphthene-d10	296000	9.863				
1517-22-2	Phenanthrene-d10	516000	11.345				
1719-03-5	Chrysene-d12	346000	13.986				
1520-96-3	Perylene-d12	300000	15.445				

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166061BS		SDG No.:	Q1069
Lab Sample ID:	PB166061BS		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.01	Units: g	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 :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141172.D	1	01/15/25 09:15	01/15/25 13:38	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	310	J	180	270	330	ug/Kg
108-95-2	Phenol	1700		82.9	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		83.7	130	170	ug/Kg
95-57-8	2-Chlorophenol	1700		83.5	130	170	ug/Kg
95-48-7	2-Methylphenol	1700		80.6	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		90.9	130	170	ug/Kg
98-86-2	Acetophenone	1700		86.9	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	1700		79.8	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		40.3	80.0	80.0	ug/Kg
67-72-1	Hexachloroethane	1600		83.0	130	170	ug/Kg
98-95-3	Nitrobenzene	1600		90.8	130	170	ug/Kg
78-59-1	Isophorone	1700		84.6	130	170	ug/Kg
88-75-5	2-Nitrophenol	1800		94.5	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		93.2	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		85.8	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		75.5	130	170	ug/Kg
91-20-3	Naphthalene	1700		82.6	130	170	ug/Kg
106-47-8	4-Chloroaniline	690		82.6	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	1600		83.3	130	170	ug/Kg
105-60-2	Caprolactam	1700		86.8	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		77.5	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	1700		82.5	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6300	E	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		74.0	130	170	ug/Kg
92-52-4	1,1-Biphenyl	1700		87.4	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		83.3	130	170	ug/Kg
88-74-4	2-Nitroaniline	1700		95.0	130	170	ug/Kg
131-11-3	Dimethylphthalate	1700		81.7	130	170	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166061BS		SDG No.:	Q1069
Lab Sample ID:	PB166061BS		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.01	Units: g	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 :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141172.D	1	01/15/25 09:15	01/15/25 13:38	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		86.5	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		83.2	130	170	ug/Kg
99-09-2	3-Nitroaniline	960		89.2	130	170	ug/Kg
83-32-9	Acenaphthene	1900		81.1	130	170	ug/Kg
51-28-5	2,4-Dinitrophenol	4100	E	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	3700	E	120	270	330	ug/Kg
132-64-9	Dibenzofuran	1700		84.4	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		86.2	130	170	ug/Kg
84-66-2	Diethylphthalate	1700		80.1	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		85.6	130	170	ug/Kg
86-73-7	Fluorene	1700		85.5	130	170	ug/Kg
100-01-6	4-Nitroaniline	1700		110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		81.6	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		78.9	130	170	ug/Kg
118-74-1	Hexachlorobenzene	1800		85.0	130	170	ug/Kg
1912-24-9	Atrazine	2200		91.4	130	170	ug/Kg
87-86-5	Pentachlorophenol	3500	E	77.3	270	330	ug/Kg
85-01-8	Phenanthrene	1800		84.0	130	170	ug/Kg
120-12-7	Anthracene	1900		84.4	130	170	ug/Kg
86-74-8	Carbazole	1800		80.3	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		84.3	130	170	ug/Kg
206-44-0	Fluoranthene	1900		81.7	130	170	ug/Kg
129-00-0	Pyrene	1700		83.0	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		96.8	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		98.6	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	1700		80.7	130	170	ug/Kg
218-01-9	Chrysene	1700		79.5	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1700		91.0	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		81.1	130	170	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166061BS		SDG No.:	Q1069
Lab Sample ID:	PB166061BS		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.01	Units: g	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 :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141172.D	1	01/15/25 09:15	01/15/25 13:38	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		82.6	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	1900		93.0	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		78.1	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		81.2	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.1	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		86.8	130	170	ug/Kg
123-91-1	1,4-Dioxane	1400		110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		74.7	130	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	139		35 - 115		92%	SPK: 150
13127-88-3	Phenol-d6	138		34 - 127		92%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.6		37 - 122		96%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.8		44 - 115		95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	156		39 - 132		104%	SPK: 150
1718-51-0	Terphenyl-d14	96.5		54 - 127		97%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	126000	6.822				
1146-65-2	Naphthalene-d8	495000	8.104				
15067-26-2	Acenaphthene-d10	264000	9.863				
1517-22-2	Phenanthrene-d10	453000	11.345				
1719-03-5	Chrysene-d12	303000	13.986				
1520-96-3	Perylene-d12	262000	15.445				

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/10/25
Client Sample ID:	TR-06-1-10-2025MS	SDG No.:	Q1069
Lab Sample ID:	Q1068-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.5
Sample Wt/Vol:	50.04 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141175.D	1	01/13/25 08:54	01/15/25 15:05	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	120	J	120	180	220	ug/Kg
108-95-2	Phenol	630		54.9	86.1	110	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	670		55.4	86.1	110	ug/Kg
95-57-8	2-Chlorophenol	620		55.3	86.1	110	ug/Kg
95-48-7	2-Methylphenol	640		53.4	86.1	110	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	640		60.2	86.1	110	ug/Kg
98-86-2	Acetophenone	690		57.6	86.1	110	ug/Kg
65794-96-9	3+4-Methylphenols	640		52.9	180	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	650		26.7	53.0	53.0	ug/Kg
67-72-1	Hexachloroethane	620		55.0	86.1	110	ug/Kg
98-95-3	Nitrobenzene	640		60.2	86.1	110	ug/Kg
78-59-1	Isophorone	700		56.0	86.1	110	ug/Kg
88-75-5	2-Nitrophenol	530		62.6	86.1	110	ug/Kg
105-67-9	2,4-Dimethylphenol	790		61.7	86.1	110	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	690		56.8	86.1	110	ug/Kg
120-83-2	2,4-Dichlorophenol	600		50.0	86.1	110	ug/Kg
91-20-3	Naphthalene	690		54.7	86.1	110	ug/Kg
106-47-8	4-Chloroaniline	250		54.7	86.1	110	ug/Kg
87-68-3	Hexachlorobutadiene	650		55.2	86.1	110	ug/Kg
105-60-2	Caprolactam	580		57.5	180	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	620		51.3	86.1	110	ug/Kg
91-57-6	2-Methylnaphthalene	680		54.7	86.1	110	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1400		100	180	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	380		47.3	86.1	110	ug/Kg
95-95-4	2,4,5-Trichlorophenol	490		49.0	86.1	110	ug/Kg
92-52-4	1,1-Biphenyl	740		57.9	86.1	110	ug/Kg
91-58-7	2-Chloronaphthalene	680		55.2	86.1	110	ug/Kg
88-74-4	2-Nitroaniline	690		62.9	86.1	110	ug/Kg
131-11-3	Dimethylphthalate	730		54.1	86.1	110	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/10/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/10/25	
Client Sample ID:	TR-06-1-10-2025MS		SDG No.:	Q1069	
Lab Sample ID:	Q1068-01MS		Matrix:	SOIL	
Analytical Method:	SW8270		% Solid:	90.5	
Sample Wt/Vol:	50.04	Units: g	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 :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141175.D	1	01/13/25 08:54	01/15/25 15:05	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	850		57.3	86.1	110	ug/Kg
606-20-2	2,6-Dinitrotoluene	650		55.1	86.1	110	ug/Kg
99-09-2	3-Nitroaniline	500		59.1	86.1	110	ug/Kg
83-32-9	Acenaphthene	670		53.7	86.1	110	ug/Kg
51-28-5	2,4-Dinitrophenol	180	U	160	180	220	ug/Kg
100-02-7	4-Nitrophenol	460		76.8	180	220	ug/Kg
132-64-9	Dibenzofuran	680		55.9	86.1	110	ug/Kg
121-14-2	2,4-Dinitrotoluene	620		57.1	86.1	110	ug/Kg
84-66-2	Diethylphthalate	690		53.1	86.1	110	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	660		56.7	86.1	110	ug/Kg
86-73-7	Fluorene	680		56.6	86.1	110	ug/Kg
100-01-6	4-Nitroaniline	530		70.9	86.1	110	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	J	77.5	180	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	840		54.1	86.1	110	ug/Kg
101-55-3	4-Bromophenyl-phenylether	800		52.3	86.1	110	ug/Kg
118-74-1	Hexachlorobenzene	740		56.3	86.1	110	ug/Kg
1912-24-9	Atrazine	980		60.5	86.1	110	ug/Kg
87-86-5	Pentachlorophenol	530		51.2	180	220	ug/Kg
85-01-8	Phenanthrene	880		55.6	86.1	110	ug/Kg
120-12-7	Anthracene	880		55.9	86.1	110	ug/Kg
86-74-8	Carbazole	730		53.2	86.1	110	ug/Kg
84-74-2	Di-n-butylphthalate	790		55.8	86.1	110	ug/Kg
206-44-0	Fluoranthene	1000		54.1	86.1	110	ug/Kg
129-00-0	Pyrene	750		55.0	86.1	110	ug/Kg
85-68-7	Butylbenzylphthalate	610		64.1	86.1	110	ug/Kg
91-94-1	3,3-Dichlorobenzidine	450		65.3	180	220	ug/Kg
56-55-3	Benzo(a)anthracene	920		53.5	86.1	110	ug/Kg
218-01-9	Chrysene	830		52.7	86.1	110	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	710		60.3	86.1	110	ug/Kg
117-84-0	Di-n-octyl phthalate	860		72.9	180	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	990		53.7	86.1	110	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/10/25
Client Sample ID:	TR-06-1-10-2025MS	SDG No.:	Q1069
Lab Sample ID:	Q1068-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.5
Sample Wt/Vol:	50.04 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141175.D	1	01/13/25 08:54	01/15/25 15:05	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	910		54.7	86.1	110	ug/Kg
50-32-8	Benzo(a)pyrene	1100		61.6	86.1	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	660		51.7	86.1	110	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	550		53.8	86.1	110	ug/Kg
191-24-2	Benzo(g,h,i)perylene	690		53.1	86.1	110	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	740		57.5	86.1	110	ug/Kg
123-91-1	1,4-Dioxane	530		72.9	86.1	110	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	250		49.5	86.1	110	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	69.8		35 - 115		47%	SPK: 150
13127-88-3	Phenol-d6	80.8		34 - 127		54%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.4		37 - 122		61%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.8		44 - 115		66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	33.3	*	39 - 132		22%	SPK: 150
1718-51-0	Terphenyl-d14	45.4	*	54 - 127		45%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	151000	6.822				
1146-65-2	Naphthalene-d8	561000	8.104				
15067-26-2	Acenaphthene-d10	265000	9.857				
1517-22-2	Phenanthrene-d10	350000	11.345				
1719-03-5	Chrysene-d12	323000	13.986				
1520-96-3	Perylene-d12	315000	15.451				

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/10/25
Client Sample ID:	TR-06-1-10-2025MSD	SDG No.:	Q1069
Lab Sample ID:	Q1068-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.5
Sample Wt/Vol:	50.02 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141176.D	1	01/13/25 08:54	01/15/25 16:40	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	130	J	120	180	220	ug/Kg
108-95-2	Phenol	700		54.9	86.2	110	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	700		55.5	86.2	110	ug/Kg
95-57-8	2-Chlorophenol	670		55.3	86.2	110	ug/Kg
95-48-7	2-Methylphenol	700		53.4	86.2	110	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	660		60.2	86.2	110	ug/Kg
98-86-2	Acetophenone	690		57.6	86.2	110	ug/Kg
65794-96-9	3+4-Methylphenols	710		52.9	180	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	690		26.7	53.0	53.0	ug/Kg
67-72-1	Hexachloroethane	640		55.0	86.2	110	ug/Kg
98-95-3	Nitrobenzene	640		60.2	86.2	110	ug/Kg
78-59-1	Isophorone	700		56.1	86.2	110	ug/Kg
88-75-5	2-Nitrophenol	550		62.6	86.2	110	ug/Kg
105-67-9	2,4-Dimethylphenol	810		61.8	86.2	110	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	680		56.9	86.2	110	ug/Kg
120-83-2	2,4-Dichlorophenol	640		50.0	86.2	110	ug/Kg
91-20-3	Naphthalene	700		54.7	86.2	110	ug/Kg
106-47-8	4-Chloroaniline	290		54.7	86.2	110	ug/Kg
87-68-3	Hexachlorobutadiene	630		55.2	86.2	110	ug/Kg
105-60-2	Caprolactam	670		57.5	180	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	710		51.4	86.2	110	ug/Kg
91-57-6	2-Methylnaphthalene	710		54.7	86.2	110	ug/Kg
77-47-4	Hexachlorocyclopentadiene	970		100	180	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	390		47.3	86.2	110	ug/Kg
95-95-4	2,4,5-Trichlorophenol	510		49.0	86.2	110	ug/Kg
92-52-4	1,1-Biphenyl	720		57.9	86.2	110	ug/Kg
91-58-7	2-Chloronaphthalene	680		55.2	86.2	110	ug/Kg
88-74-4	2-Nitroaniline	730		63.0	86.2	110	ug/Kg
131-11-3	Dimethylphthalate	720		54.1	86.2	110	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/10/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/10/25	
Client Sample ID:	TR-06-1-10-2025MSD		SDG No.:	Q1069	
Lab Sample ID:	Q1068-01MSD		Matrix:	SOIL	
Analytical Method:	SW8270		% Solid:	90.5	
Sample Wt/Vol:	50.02	Units: g	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 :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141176.D	1	01/13/25 08:54	01/15/25 16:40	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	850		57.3	86.2	110	ug/Kg
606-20-2	2,6-Dinitrotoluene	680		55.1	86.2	110	ug/Kg
99-09-2	3-Nitroaniline	560		59.1	86.2	110	ug/Kg
83-32-9	Acenaphthene	680		53.7	86.2	110	ug/Kg
51-28-5	2,4-Dinitrophenol	180	U	160	180	220	ug/Kg
100-02-7	4-Nitrophenol	540		76.9	180	220	ug/Kg
132-64-9	Dibenzofuran	700		55.9	86.2	110	ug/Kg
121-14-2	2,4-Dinitrotoluene	700		57.1	86.2	110	ug/Kg
84-66-2	Diethylphthalate	710		53.1	86.2	110	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	700		56.7	86.2	110	ug/Kg
86-73-7	Fluorene	720		56.7	86.2	110	ug/Kg
100-01-6	4-Nitroaniline	620		70.9	86.2	110	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	99.8	J	77.5	180	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	840		54.1	86.2	110	ug/Kg
101-55-3	4-Bromophenyl-phenylether	780		52.3	86.2	110	ug/Kg
118-74-1	Hexachlorobenzene	740		56.3	86.2	110	ug/Kg
1912-24-9	Atrazine	990		60.6	86.2	110	ug/Kg
87-86-5	Pentachlorophenol	510		51.2	180	220	ug/Kg
85-01-8	Phenanthrene	890		55.7	86.2	110	ug/Kg
120-12-7	Anthracene	900		55.9	86.2	110	ug/Kg
86-74-8	Carbazole	730		53.2	86.2	110	ug/Kg
84-74-2	Di-n-butylphthalate	780		55.9	86.2	110	ug/Kg
206-44-0	Fluoranthene	930		54.1	86.2	110	ug/Kg
129-00-0	Pyrene	870		55.0	86.2	110	ug/Kg
85-68-7	Butylbenzylphthalate	690		64.2	86.2	110	ug/Kg
91-94-1	3,3-Dichlorobenzidine	460		65.3	180	220	ug/Kg
56-55-3	Benzo(a)anthracene	870		53.5	86.2	110	ug/Kg
218-01-9	Chrysene	900		52.7	86.2	110	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	770		60.3	86.2	110	ug/Kg
117-84-0	Di-n-octyl phthalate	830		72.9	180	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	1100		53.7	86.2	110	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/10/25
Client Sample ID:	TR-06-1-10-2025MSD	SDG No.:	Q1069
Lab Sample ID:	Q1068-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.5
Sample Wt/Vol:	50.02 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141176.D	1	01/13/25 08:54	01/15/25 16:40	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	890		54.7	86.2	110	ug/Kg
50-32-8	Benzo(a)pyrene	1200		61.6	86.2	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	730		51.8	86.2	110	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	610		53.8	86.2	110	ug/Kg
191-24-2	Benzo(g,h,i)perylene	770		53.1	86.2	110	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	720		57.5	86.2	110	ug/Kg
123-91-1	1,4-Dioxane	540		72.9	86.2	110	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	290		49.5	86.2	110	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	74.2		35 - 115		49%	SPK: 150
13127-88-3	Phenol-d6	88.2		34 - 127		59%	SPK: 150
4165-60-0	Nitrobenzene-d5	62.1		37 - 122		62%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.6		44 - 115		63%	SPK: 100
118-79-6	2,4,6-Tribromophenol	37.1	*	39 - 132		25%	SPK: 150
1718-51-0	Terphenyl-d14	52.3	*	54 - 127		52%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	143000	6.822				
1146-65-2	Naphthalene-d8	569000	8.104				
15067-26-2	Acenaphthene-d10	295000	9.863				
1517-22-2	Phenanthrene-d10	427000	11.345				
1719-03-5	Chrysene-d12	307000	13.992				
1520-96-3	Perylene-d12	256000	15.468				

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

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() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

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 =BF1411109.D 5 =BF1411110.D 10 =BF1411111.D 20 =BF1411112.D 40 =BF1411113.D 50 =BF1411117.D 60 =BF1411118.D 80 =BF1411119.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)	Butylbenzylphth...	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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG No.: Q1069

Instrument ID: BNA_F Calibration Date/Time: 01/15/2025 09:34

Lab File ID: BF141163.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	1.263		-2.5	
Benzaldehyde	0.966	0.866		-10.4	
Phenol-d6	1.640	1.570		-4.3	
Phenol	1.756	1.667		-5.1	20.0
bis(2-Chloroethyl)ether	1.308	1.229		-6.0	
2-Chlorophenol	1.389	1.347		-3.0	
2-Methylphenol	1.121	1.090		-2.8	
2,2-oxybis(1-Chloropropane)	1.826	1.648		-9.7	
Acetophenone	0.475	0.457		-3.8	
3+4-Methylphenols	1.415	1.349		-4.7	
n-Nitroso-di-n-propylamine	0.966	0.881	0.050	-8.8	
Nitrobenzene-d5	0.377	0.370		-1.9	
Hexachloroethane	0.565	0.551		-2.5	
Nitrobenzene	0.393	0.385		-2.0	
Isophorone	0.645	0.612		-5.1	
2-Nitrophenol	0.179	0.184		2.8	20.0
2,4-Dimethylphenol	0.241	0.232		-3.7	
bis(2-Chloroethoxy)methane	0.405	0.380		-6.2	
2,4-Dichlorophenol	0.287	0.284		-1.0	20.0
Naphthalene	1.055	1.026		-2.7	
4-Chloroaniline	0.365	0.344		-5.8	
Hexachlorobutadiene	0.197	0.196		-0.5	20.0
Caprolactam	0.094	0.092		-2.1	
4-Chloro-3-methylphenol	0.313	0.306		-2.2	20.0
2-Methylnaphthalene	0.672	0.639		-4.9	
Hexachlorocyclopentadiene	0.188	0.199	0.050	5.9	
2,4,6-Trichlorophenol	0.387	0.370		-4.4	20.0
2-Fluorobiphenyl	1.310	1.231		-6.0	
2,4,5-Trichlorophenol	0.409	0.404		-1.2	
1,1-Biphenyl	1.553	1.467		-5.5	
2-Chloronaphthalene	1.210	1.166		-3.6	
2-Nitroaniline	0.359	0.353		-1.7	
Dimethylphthalate	1.343	1.288		-4.1	
Acenaphthylene	1.728	1.651		-4.5	
2,6-Dinitrotoluene	0.312	0.308		-1.3	
3-Nitroaniline	0.317	0.324		2.2	
Acenaphthene	1.208	1.176		-2.6	20.0
2,4-Dinitrophenol	0.148	0.159	0.050	7.4	
4-Nitrophenol	0.248	0.265	0.050	6.9	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG No.: Q1069

Instrument ID: BNA_F Calibration Date/Time: 01/15/2025 09:34

Lab File ID: BF141163.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	1.566		-4.6	
2,4-Dinitrotoluene	0.402	0.413		2.7	
Diethylphthalate	1.311	1.242		-5.3	
4-Chlorophenyl-phenylether	0.622	0.595		-4.3	
Fluorene	1.276	1.223		-4.2	
4-Nitroaniline	0.311	0.328		5.5	
4,6-Dinitro-2-methylphenol	0.116	0.131		12.9	
n-Nitrosodiphenylamine	0.645	0.629		-2.5	20.0
2,4,6-Tribromophenol	0.228	0.234		2.6	
4-Bromophenyl-phenylether	0.230	0.229		-0.4	
Hexachlorobenzene	0.256	0.257		0.4	
Atrazine	0.174	0.143		-17.8	
Pentachlorophenol	0.164	0.178		8.5	20.0
Phenanthrene	1.074	1.070		-0.4	
Anthracene	1.044	1.044		0.0	
Carbazole	0.957	0.989		3.3	
Di-n-butylphthalate	1.096	1.092		-0.4	
Fluoranthene	1.071	1.131		5.6	20.0
Pyrene	1.910	1.798		-5.9	
Terphenyl-d14	1.346	1.266		-5.9	
Butylbenzylphthalate	0.637	0.622		-2.4	
3,3-Dichlorobenzidine	0.433	0.415		-4.2	
Benzo (a) anthracene	1.361	1.300		-4.5	
Chrysene	1.274	1.151		-9.7	
Bis(2-ethylhexyl)phthalate	0.764	0.720		-5.8	
Di-n-octyl phthalate	1.154	0.997		-13.6	20.0
Benzo (b) fluoranthene	1.290	1.198		-7.1	
Benzo (k) fluoranthene	1.090	1.161		6.5	
Benzo (a) pyrene	1.064	1.042		-2.1	20.0
Indeno (1,2,3-cd) pyrene	1.465	1.419		-3.1	
Dibenzo (a,h) anthracene	1.185	1.151		-2.9	
Benzo (g,h,i) perylene	1.233	1.220		-1.1	
1,2,4,5-Tetrachlorobenzene	0.574	0.557		-3.0	
1,4-Dioxane	0.577	0.535		-7.3	20.0
2,3,4,6-Tetrachlorophenol	0.340	0.329		-3.2	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG No.: Q1069

Instrument ID: BNA_F Calibration Date/Time: 01/15/2025 17:10

Lab File ID: BF141177.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	1.226		-5.3	50.0
Benzaldehyde	0.966	0.898		-7.0	50.0
Phenol-d6	1.640	1.520		-7.3	50.0
Phenol	1.756	1.619		-7.8	50.0
bis(2-Chloroethyl)ether	1.308	1.235		-5.6	50.0
2-Chlorophenol	1.389	1.328		-4.4	50.0
2-Methylphenol	1.121	1.056		-5.8	50.0
2,2-oxybis(1-Chloropropane)	1.826	1.658		-9.2	50.0
Acetophenone	0.475	0.447		-5.9	50.0
3+4-Methylphenols	1.415	1.324		-6.4	50.0
n-Nitroso-di-n-propylamine	0.966	0.896	0.050	-7.2	50.0
Nitrobenzene-d5	0.377	0.364		-3.4	50.0
Hexachloroethane	0.565	0.550		-2.7	50.0
Nitrobenzene	0.393	0.375		-4.6	50.0
Isophorone	0.645	0.606		-6.0	50.0
2-Nitrophenol	0.179	0.182		1.7	50.0
2,4-Dimethylphenol	0.241	0.227		-5.8	50.0
bis(2-Chloroethoxy)methane	0.405	0.383		-5.4	50.0
2,4-Dichlorophenol	0.287	0.279		-2.8	50.0
Naphthalene	1.055	1.004		-4.8	50.0
4-Chloroaniline	0.365	0.313		-14.2	50.0
Hexachlorobutadiene	0.197	0.199		1.0	50.0
Caprolactam	0.094	0.085		-9.6	50.0
4-Chloro-3-methylphenol	0.313	0.296		-5.4	50.0
2-Methylnaphthalene	0.672	0.642		-4.5	50.0
Hexachlorocyclopentadiene	0.188	0.208	0.050	10.6	50.0
2,4,6-Trichlorophenol	0.387	0.392		1.3	50.0
2-Fluorobiphenyl	1.310	1.277		-2.5	50.0
2,4,5-Trichlorophenol	0.409	0.389		-4.9	50.0
1,1-Biphenyl	1.553	1.513		-2.6	50.0
2-Chloronaphthalene	1.210	1.171		-3.2	50.0
2-Nitroaniline	0.359	0.342		-4.7	50.0
Dimethylphthalate	1.343	1.285		-4.3	50.0
Acenaphthylene	1.728	1.643		-4.9	50.0
2,6-Dinitrotoluene	0.312	0.301		-3.5	50.0
3-Nitroaniline	0.317	0.301		-5.0	50.0
Acenaphthene	1.208	1.172		-3.0	50.0
2,4-Dinitrophenol	0.148	0.154	0.050	4.1	50.0
4-Nitrophenol	0.248	0.232	0.050	-6.5	50.0

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG No.: Q1069

Instrument ID: BNA_F Calibration Date/Time: 01/15/2025 17:10

Lab File ID: BF141177.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	1.553		-5.4	50.0
2,4-Dinitrotoluene	0.402	0.390		-3.0	50.0
Diethylphthalate	1.311	1.242		-5.3	50.0
4-Chlorophenyl-phenylether	0.622	0.601		-3.4	50.0
Fluorene	1.276	1.200		-6.0	50.0
4-Nitroaniline	0.311	0.284		-8.7	50.0
4,6-Dinitro-2-methylphenol	0.116	0.131		12.9	50.0
n-Nitrosodiphenylamine	0.645	0.660		2.3	50.0
2,4,6-Tribromophenol	0.228	0.223		-2.2	50.0
4-Bromophenyl-phenylether	0.230	0.242		5.2	50.0
Hexachlorobenzene	0.256	0.266		3.9	50.0
Atrazine	0.174	0.141		-19.0	50.0
Pentachlorophenol	0.164	0.171		4.3	50.0
Phenanthrene	1.074	1.061		-1.2	50.0
Anthracene	1.044	1.038		-0.6	50.0
Carbazole	0.957	0.930		-2.8	50.0
Di-n-butylphthalate	1.096	1.104		0.7	50.0
Fluoranthene	1.071	1.005		-6.2	50.0
Pyrene	1.910	1.715		-10.2	50.0
Terphenyl-d14	1.346	1.235		-8.2	50.0
Butylbenzylphthalate	0.637	0.602		-5.5	50.0
3,3-Dichlorobenzidine	0.433	0.437		0.9	50.0
Benzo (a) anthracene	1.361	1.281		-5.9	50.0
Chrysene	1.274	1.141		-10.4	50.0
Bis(2-ethylhexyl)phthalate	0.764	0.750		-1.8	50.0
Di-n-octyl phthalate	1.154	1.233		6.8	50.0
Benzo (b) fluoranthene	1.290	1.133		-12.2	50.0
Benzo (k) fluoranthene	1.090	1.067		-2.1	50.0
Benzo (a) pyrene	1.064	1.016		-4.5	50.0
Indeno (1,2,3-cd) pyrene	1.465	1.497		2.2	50.0
Dibenzo (a,h) anthracene	1.185	1.222		3.1	50.0
Benzo (g,h,i) perylene	1.233	1.275		3.4	50.0
1,2,4,5-Tetrachlorobenzene	0.574	0.580		1.0	50.0
1,4-Dioxane	0.577	0.509		-11.8	50.0
2,3,4,6-Tetrachlorophenol	0.340	0.315		-7.4	50.0

All other compounds must meet a minimum RRF of 0.010.

LAB CHRONICLE

OrderID:	Q1069	OrderDate:	1/10/2025 1:20:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1069-01	RW7B-CARBON-20250109	SOIL	PCB	8082A	01/09/25	01/13/25	01/14/25	01/09/25

Hit Summary Sheet
SW-846

SDG No.: Q1069

Order ID: Q1069

Client: Tetra Tech NUS, Inc.

Project ID: NWIRP Bethpage 112G08005-WE13

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

Total Concentration: 0.000



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/09/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/09/25	
Client Sample ID:	RW7B-CARBON-20250109		SDG No.:	Q1069	
Lab Sample ID:	Q1069-01		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	55.6	Decanted:
Sample Wt/Vol:	30.06	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069109.D	1	01/13/25 08:10	01/14/25 10:24	PB166030

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
12674-11-2	Aroclor-1016	14.9	U	6.10	14.9	30.5	ug/kg
11104-28-2	Aroclor-1221	23.3	U	11.5	23.3	30.5	ug/kg
11141-16-5	Aroclor-1232	23.3	U	6.10	23.3	30.5	ug/kg
53469-21-9	Aroclor-1242	14.9	U	6.10	14.9	30.5	ug/kg
12672-29-6	Aroclor-1248	23.3	U	14.2	23.3	30.5	ug/kg
11097-69-1	Aroclor-1254	23.3	U	4.90	23.3	30.5	ug/kg
37324-23-5	Aroclor-1262	14.9	U	8.20	14.9	30.5	ug/kg
11100-14-4	Aroclor-1268	23.3	U	6.20	23.3	30.5	ug/kg
11096-82-5	Aroclor-1260	14.9	U	5.20	14.9	30.5	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	22.4		44 - 130		112%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.3		60 - 125		117%	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

Surrogate Summary

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	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-PP069074.D	PIBLK-PP069074.D	Tetrachloro-m-xylene	1	20	20.8	104		60	140
		Decachlorobiphenyl	1	20	20.4	102		60	140
		Tetrachloro-m-xylene	2	20	21.1	105		60	140
		Decachlorobiphenyl	2	20	22.1	111		60	140
PB166030BL	PB166030BL	Tetrachloro-m-xylene	1	20	19.1	95		44	130
		Decachlorobiphenyl	1	20	19.2	96		60	125
		Tetrachloro-m-xylene	2	20	19.1	96		44	130
		Decachlorobiphenyl	2	20	19.4	97		60	125
PB166030BS	PB166030BS	Tetrachloro-m-xylene	1	20	19.7	99		44	130
		Decachlorobiphenyl	1	20	19.4	97		60	125
		Tetrachloro-m-xylene	2	20	20.1	101		44	130
		Decachlorobiphenyl	2	20	19.9	100		60	125
Q1068-01MS	TR-06-1-10-2025MS	Tetrachloro-m-xylene	1	20	21.1	106		44	130
		Decachlorobiphenyl	1	20	19.0	95		60	125
		Tetrachloro-m-xylene	2	20	22.5	112		44	130
		Decachlorobiphenyl	2	20	18.8	94		60	125
Q1068-01MSD	TR-06-1-10-2025MSD	Tetrachloro-m-xylene	1	20	20.2	101		44	130
		Decachlorobiphenyl	1	20	18.7	94		60	125
		Tetrachloro-m-xylene	2	20	22.6	113		44	130
		Decachlorobiphenyl	2	20	19.3	97		60	125
I.BLK-PP069088.D	PIBLK-PP069088.D	Tetrachloro-m-xylene	1	20	21.1	105		60	140
		Decachlorobiphenyl	1	20	20.6	103		60	140
		Tetrachloro-m-xylene	2	20	21.0	105		60	140
		Decachlorobiphenyl	2	20	21.0	105		60	140
I.BLK-PP069108.D	PIBLK-PP069108.D	Tetrachloro-m-xylene	1	20	21.1	105		60	140
		Decachlorobiphenyl	1	20	20.8	104		60	140
		Tetrachloro-m-xylene	2	20	21.4	107		60	140
		Decachlorobiphenyl	2	20	22.9	115		60	140
Q1069-01	RW7B-CARBON-20250109	Tetrachloro-m-xylene	1	20	22.3	112		44	130
		Decachlorobiphenyl	1	20	21.3	106		60	125
		Tetrachloro-m-xylene	2	20	22.4	112		44	130
		Decachlorobiphenyl	2	20	23.3	117		60	125
I.BLK-PP069121.D	PIBLK-PP069121.D	Tetrachloro-m-xylene	1	20	21.6	108		60	140
		Decachlorobiphenyl	1	20	20.6	103		60	140
		Tetrachloro-m-xylene	2	20	20.8	104		60	140
		Decachlorobiphenyl	2	20	23.3	117		60	140

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A

DataFile : PP069080.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	TR-06-1-10-2025MS											
Q1068-01MS	AR1016	184	0	175	ug/kg	95				47	134	
	AR1260	184	0	173	ug/kg	94				53	140	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A

DataFile : PP069081.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	TR-06-1-10-2025MSD											
Q1068-01MSD	AR1016	183.7	0	181	ug/kg	99		4		47	134	20
	AR1260	183.7	0	170	ug/kg	93		1		53	140	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A **Datafile :** PP069076.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB166030BS	AR1016	166.6	149	ug/kg	89				47	134		
	AR1260	166.6	138	ug/kg	83				53	140		

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PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166030BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1069

SAS No.: Q1069 SDG NO.: Q1069

Lab Sample ID: PB166030BL

Lab File ID: PP069075.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 01/13/2025

Date Analyzed (1): 01/13/2025

Date Analyzed (2): 01/13/2025

Time Analyzed (1): 11:23

Time Analyzed (2): 11:23

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
PB166030BS	PB166030BS	PP069076.D	01/13/2025	01/13/2025
TR-06-1-10-2025MS	Q1068-01MS	PP069080.D	01/13/2025	01/13/2025
TR-06-1-10-2025MSD	Q1068-01MSD	PP069081.D	01/13/2025	01/13/2025
RW7B-CARBON-20250109	Q1069-01	PP069109.D	01/14/2025	01/14/2025

COMMENTS: _____



CALIBRATION SUMMARY

RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR06
Lab Code: CHEM **Case No.:** Q1069 **SAS No.:** Q1069 **SDG NO.:** Q1069
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 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

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.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

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	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

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.:** Q1069 **SAS No.:** Q1069 **SDG NO.:** Q1069
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

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

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 = <u>PP068915.D</u>		CF 750 = <u>PP068916.D</u>			
CF 500 = <u>PP068917.D</u>		CF 250 = <u>PP068918.D</u>		CF 050 = <u>PP068919.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	29491720	31871205	35002460	37188936	35609200	33832704
Aroclor-1016-2	(2)	43905696	46895139	51079918	59834124	49947760	50332527
Aroclor-1016-3	(3)	24591042	26218015	28467334	29753780	26453500	27096734
Aroclor-1016-4	(4)	21752440	23319543	25647084	27056044	25429040	24640830
Aroclor-1016-5	(5)	26864500	28975405	32107876	32642752	30388580	30195823
Aroclor-1260-1	(1)	50390605	53012508	58700244	62769480	61600300	57294627
Aroclor-1260-2	(2)	58350095	59819339	67189098	72555824	71470420	65876955
Aroclor-1260-3	(3)	56856247	58933307	66166408	70041080	69921440	64383696
Aroclor-1260-4	(4)	50536167	50055928	57211992	62777372	59480660	56012424
Aroclor-1260-5	(5)	113748686	110133253	122878600	134950020	132356860	122813484
Decachlorobiphenyl		1055952250	1078345120	1181870400	1328006000	1362385800	1201311914
Tetrachloro-m-xylene		921448750	960676413	1002945440	1051065280	944696000	976166377
Aroclor-1242-1	(1)	25904769	27693345	29421300	31654716	32061380	29347102
Aroclor-1242-2	(2)	38827344	40647475	42253498	45564736	43218900	42102391
Aroclor-1242-3	(3)	21506578	22670196	23486094	24288540	24384700	23267222
Aroclor-1242-4	(4)	22209738	23492983	24690230	25684072	25766040	24368613
Aroclor-1242-5	(5)	26270830	28162075	29282028	30515800	30936940	29033535
Decachlorobiphenyl		1065489030	1201310467	1161897160	1288078080	1369157600	1217186467
Tetrachloro-m-xylene		958809120	1008718787	1019527140	1074481240	990259000	1010359057
Aroclor-1248-1	(1)	20093138	22105341	23598424	24146056	25052820	22999156
Aroclor-1248-2	(2)	29632170	32533207	34508544	36839176	37195000	34141619
Aroclor-1248-3	(3)	31007140	33988465	35908688	37877684	37882320	35332859
Aroclor-1248-4	(4)	36296413	39507735	41759214	44484412	43761000	41161755
Aroclor-1248-5	(5)	34689161	38121964	39504132	41178700	39937060	38686203
Decachlorobiphenyl		1094465140	1151641293	1242326740	1360729280	1293380600	1228508611
Tetrachloro-m-xylene		941029690	986176773	1020381960	1054278600	985643400	997502085
Aroclor-1254-1	(1)	54013826	55348175	60179124	66113132	65004480	60131747
Aroclor-1254-2	(2)	47307501	48908441	53313688	59053240	58911200	53498814
Aroclor-1254-3	(3)	74830722	75469891	83014460	89549424	88739340	82320767
Aroclor-1254-4	(4)	41013798	41461259	45272902	49531452	47721160	45000114
Aroclor-1254-5	(5)	68187162	69945763	75883524	79998908	79038140	74610699
Decachlorobiphenyl		1087096440	1107415987	1209539480	1317992920	1429766000	1230362165
Tetrachloro-m-xylene		1009511300	1003719773	1056322440	1076595560	991234800	1027476775
Aroclor-1268-1	(1)	148439751	158177365	166475976	163027408	175252540	162274608

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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

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		CALIBRATION FACTOR
				FROM	TO	
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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

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		CALIBRATION FACTOR
				FROM	TO	
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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

Continuing Calib Date: 01/13/2025 Initial Calibration Date(s): 01/06/2025 01/07/2025

Continuing Calib Time: 08:43 Initial Calibration Time(s): 19:57 03:16

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
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)	5.91	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)	6.31	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	0.01
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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

Continuing Calib Date: 01/13/2025 Initial Calibration Date(s): 01/06/2025 01/07/2025

Continuing Calib Time: 08:43 Initial Calibration Time(s): 19:57 03:16

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
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)	7.63	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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

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

Client Sample No.: CCAL01 Date Analyzed: 01/13/2025

Lab Sample No.: AR1660CCC500 Data File : PP069070.D Time Analyzed: 08:43

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.829	5.732	5.932	457.050	500.000	-8.6
Aroclor-1016-2	5.852	5.754	5.954	466.230	500.000	-6.8
Aroclor-1016-3	5.914	5.818	6.018	444.130	500.000	-11.2
Aroclor-1016-4	6.012	5.916	6.116	443.710	500.000	-11.3
Aroclor-1016-5	6.307	6.210	6.410	443.670	500.000	-11.3
Aroclor-1260-1	7.429	7.333	7.533	429.220	500.000	-14.2
Aroclor-1260-2	7.682	7.587	7.787	447.600	500.000	-10.5
Aroclor-1260-3	8.042	7.947	8.147	439.650	500.000	-12.1
Aroclor-1260-4	8.275	8.180	8.380	433.410	500.000	-13.3
Aroclor-1260-5	8.606	8.513	8.713	458.940	500.000	-8.2
Decachlorobiphenyl	10.515	10.424	10.624	42.770	50.000	-14.5
Tetrachloro-m-xylene	4.669	4.572	4.772	48.130	50.000	-3.7

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

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

Client Sample No.: CCAL01 Date Analyzed: 01/13/2025

Lab Sample No.: AR1660CCC500 Data File : PP069070.D Time Analyzed: 08:43

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.080	4.985	5.185	490.400	500.000	-1.9
Aroclor-1016-2	5.100	5.004	5.204	470.090	500.000	-6.0
Aroclor-1016-3	5.279	5.184	5.384	491.300	500.000	-1.7
Aroclor-1016-4	5.319	5.224	5.424	472.040	500.000	-5.6
Aroclor-1016-5	5.537	5.442	5.642	471.610	500.000	-5.7
Aroclor-1260-1	6.578	6.484	6.684	444.560	500.000	-11.1
Aroclor-1260-2	6.765	6.672	6.872	454.750	500.000	-9.1
Aroclor-1260-3	6.921	6.828	7.028	439.100	500.000	-12.2
Aroclor-1260-4	7.395	7.302	7.502	434.160	500.000	-13.2
Aroclor-1260-5	7.634	7.541	7.741	444.140	500.000	-11.2
Decachlorobiphenyl	9.101	9.011	9.211	42.450	50.000	-15.1
Tetrachloro-m-xylene	3.980	3.883	4.083	49.630	50.000	-0.7

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

Continuing Calib Date: 01/13/2025 Initial Calibration Date(s): 01/06/2025 01/07/2025

Continuing Calib Time: 14:06 Initial Calibration Time(s): 19:57 03:16

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

Continuing Calib Date: 01/13/2025 Initial Calibration Date(s): 01/06/2025 01/07/2025

Continuing Calib Time: 14:06 Initial Calibration Time(s): 19:57 03:16

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
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	0.00
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	0.00
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		9.11	9.11	9.01	9.21	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

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

Client Sample No.: CCAL02 Date Analyzed: 01/13/2025

Lab Sample No.: AR1660CCC500 Data File : PP069084.D Time Analyzed: 14:06

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.831	5.732	5.932	462.450	500.000	-7.5
Aroclor-1016-2	5.853	5.754	5.954	468.150	500.000	-6.4
Aroclor-1016-3	5.916	5.818	6.018	446.190	500.000	-10.8
Aroclor-1016-4	6.014	5.916	6.116	447.590	500.000	-10.5
Aroclor-1016-5	6.307	6.210	6.410	446.160	500.000	-10.8
Aroclor-1260-1	7.430	7.333	7.533	435.620	500.000	-12.9
Aroclor-1260-2	7.684	7.587	7.787	452.190	500.000	-9.6
Aroclor-1260-3	8.044	7.947	8.147	441.540	500.000	-11.7
Aroclor-1260-4	8.276	8.180	8.380	441.260	500.000	-11.7
Aroclor-1260-5	8.609	8.513	8.713	459.450	500.000	-8.1
Decachlorobiphenyl	10.517	10.424	10.624	43.490	50.000	-13.0
Tetrachloro-m-xylene	4.670	4.572	4.772	48.350	50.000	-3.3

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

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

Client Sample No.: CCAL02 Date Analyzed: 01/13/2025

Lab Sample No.: AR1660CCC500 Data File : PP069084.D Time Analyzed: 14:06

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.083	4.985	5.185	482.760	500.000	-3.4
Aroclor-1016-2	5.102	5.004	5.204	466.190	500.000	-6.8
Aroclor-1016-3	5.282	5.184	5.384	479.590	500.000	-4.1
Aroclor-1016-4	5.321	5.224	5.424	459.170	500.000	-8.2
Aroclor-1016-5	5.539	5.442	5.642	460.090	500.000	-8.0
Aroclor-1260-1	6.580	6.484	6.684	443.550	500.000	-11.3
Aroclor-1260-2	6.768	6.672	6.872	457.970	500.000	-8.4
Aroclor-1260-3	6.924	6.828	7.028	439.710	500.000	-12.1
Aroclor-1260-4	7.399	7.302	7.502	430.540	500.000	-13.9
Aroclor-1260-5	7.637	7.541	7.741	439.440	500.000	-12.1
Decachlorobiphenyl	9.105	9.011	9.211	42.960	50.000	-14.1
Tetrachloro-m-xylene	3.982	3.883	4.083	48.550	50.000	-2.9

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

Continuing Calib Date: 01/14/2025 Initial Calibration Date(s): 01/06/2025 01/07/2025

Continuing Calib Time: 08:37 Initial Calibration Time(s): 19:57 03:16

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
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	0.01
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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

Continuing Calib Date: 01/14/2025 Initial Calibration Date(s): 01/06/2025 01/07/2025

Continuing Calib Time: 08:37 Initial Calibration Time(s): 19:57 03:16

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
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)	7.63	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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

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

Client Sample No.: CCAL03 Date Analyzed: 01/14/2025

Lab Sample No.: AR1660CCC500 Data File : PP069104.D Time Analyzed: 08:37

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.830	5.732	5.932	467.670	500.000	-6.5
Aroclor-1016-2	5.852	5.754	5.954	487.180	500.000	-2.6
Aroclor-1016-3	5.915	5.818	6.018	472.270	500.000	-5.5
Aroclor-1016-4	6.013	5.916	6.116	469.660	500.000	-6.1
Aroclor-1016-5	6.307	6.210	6.410	469.370	500.000	-6.1
Aroclor-1260-1	7.430	7.333	7.533	450.250	500.000	-10.0
Aroclor-1260-2	7.684	7.587	7.787	466.880	500.000	-6.6
Aroclor-1260-3	8.043	7.947	8.147	457.860	500.000	-8.4
Aroclor-1260-4	8.276	8.180	8.380	455.180	500.000	-9.0
Aroclor-1260-5	8.607	8.513	8.713	474.780	500.000	-5.0
Decachlorobiphenyl	10.515	10.424	10.624	44.680	50.000	-10.6
Tetrachloro-m-xylene	4.670	4.572	4.772	49.610	50.000	-0.8

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

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

Client Sample No.: CCAL03 Date Analyzed: 01/14/2025

Lab Sample No.: AR1660CCC500 Data File : PP069104.D Time Analyzed: 08:37

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.080	4.985	5.185	503.810	500.000	0.8
Aroclor-1016-2	5.099	5.004	5.204	487.740	500.000	-2.5
Aroclor-1016-3	5.278	5.184	5.384	504.930	500.000	1.0
Aroclor-1016-4	5.318	5.224	5.424	484.070	500.000	-3.2
Aroclor-1016-5	5.536	5.442	5.642	492.090	500.000	-1.6
Aroclor-1260-1	6.577	6.484	6.684	455.070	500.000	-9.0
Aroclor-1260-2	6.765	6.672	6.872	463.400	500.000	-7.3
Aroclor-1260-3	6.921	6.828	7.028	447.620	500.000	-10.5
Aroclor-1260-4	7.395	7.302	7.502	453.820	500.000	-9.2
Aroclor-1260-5	7.634	7.541	7.741	463.570	500.000	-7.3
Decachlorobiphenyl	9.101	9.011	9.211	46.610	50.000	-6.8
Tetrachloro-m-xylene	3.980	3.883	4.083	48.980	50.000	-2.0

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

Continuing Calib Date: 01/14/2025 Initial Calibration Date(s): 01/06/2025 01/07/2025

Continuing Calib Time: 13:55 Initial Calibration Time(s): 19:57 03:16

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
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	0.01
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	0.01
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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

Continuing Calib Date: 01/14/2025 Initial Calibration Date(s): 01/06/2025 01/07/2025

Continuing Calib Time: 13:55 Initial Calibration Time(s): 19:57 03:16

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
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	0.00
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	0.00
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

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

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

Client Sample No.: CCAL04 Date Analyzed: 01/14/2025

Lab Sample No.: AR1660CCC500 Data File : PP069117.D Time Analyzed: 13:55

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.830	5.732	5.932	452.510	500.000	-9.5
Aroclor-1016-2	5.852	5.754	5.954	461.550	500.000	-7.7
Aroclor-1016-3	5.915	5.818	6.018	441.410	500.000	-11.7
Aroclor-1016-4	6.013	5.916	6.116	437.800	500.000	-12.4
Aroclor-1016-5	6.307	6.210	6.410	436.790	500.000	-12.6
Aroclor-1260-1	7.430	7.333	7.533	440.090	500.000	-12.0
Aroclor-1260-2	7.683	7.587	7.787	459.010	500.000	-8.2
Aroclor-1260-3	8.043	7.947	8.147	441.980	500.000	-11.6
Aroclor-1260-4	8.275	8.180	8.380	438.550	500.000	-12.3
Aroclor-1260-5	8.607	8.513	8.713	460.740	500.000	-7.9
Decachlorobiphenyl	10.515	10.424	10.624	42.870	50.000	-14.3
Tetrachloro-m-xylene	4.670	4.572	4.772	48.730	50.000	-2.5

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

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

Client Sample No.: CCAL04 Date Analyzed: 01/14/2025

Lab Sample No.: AR1660CCC500 Data File : PP069117.D Time Analyzed: 13:55

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.081	4.985	5.185	487.420	500.000	-2.5
Aroclor-1016-2	5.100	5.004	5.204	464.680	500.000	-7.1
Aroclor-1016-3	5.280	5.184	5.384	502.060	500.000	0.4
Aroclor-1016-4	5.320	5.224	5.424	474.000	500.000	-5.2
Aroclor-1016-5	5.537	5.442	5.642	474.230	500.000	-5.2
Aroclor-1260-1	6.579	6.484	6.684	426.030	500.000	-14.8
Aroclor-1260-2	6.766	6.672	6.872	436.680	500.000	-12.7
Aroclor-1260-3	6.923	6.828	7.028	434.020	500.000	-13.2
Aroclor-1260-4	7.396	7.302	7.502	421.640	500.000	-15.7
Aroclor-1260-5	7.636	7.541	7.741	434.450	500.000	-13.1
Decachlorobiphenyl	9.104	9.011	9.211	44.830	50.000	-10.3
Tetrachloro-m-xylene	3.981	3.883	4.083	48.100	50.000	-3.8

Analytical Sequence

Client: Tetra Tech NUS, Inc.	SDG No.: Q1069
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 #
IBLK	IBLK	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	01/13/2025	08:43	PP069070.D	10.52	4.67
IBLK	IBLK	01/13/2025	09:48	PP069074.D	10.51	4.67
PB166030BL	PB166030BL	01/13/2025	11:23	PP069075.D	10.52	4.67
PB166030BS	PB166030BS	01/13/2025	11:39	PP069076.D	10.52	4.67
TR-06-1-10-2025MS	Q1068-01MS	01/13/2025	12:44	PP069080.D	10.52	4.67
TR-06-1-10-2025MSD	Q1068-01MSD	01/13/2025	13:00	PP069081.D	10.52	4.67
AR1660CCC500	AR1660CCC500	01/13/2025	14:06	PP069084.D	10.52	4.67
IBLK	IBLK	01/13/2025	15:43	PP069088.D	10.52	4.67
AR1660CCC500	AR1660CCC500	01/14/2025	08:37	PP069104.D	10.52	4.67
IBLK	IBLK	01/14/2025	09:42	PP069108.D	10.52	4.67
RW7B-CARBON-20250109	Q1069-01	01/14/2025	10:24	PP069109.D	10.52	4.67
AR1660CCC500	AR1660CCC500	01/14/2025	13:55	PP069117.D	10.52	4.67
IBLK	IBLK	01/14/2025	15:00	PP069121.D	10.52	4.67

Analytical Sequence

A

B

C

D

E

F

G

Analytical Sequence

Client: Tetra Tech NUS, Inc.	SDG No.: Q1069
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 #
IBLK	IBLK	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	01/13/2025	08:43	PP069070.D	9.10	3.98
IBLK	IBLK	01/13/2025	09:48	PP069074.D	9.10	3.98
PB166030BL	PB166030BL	01/13/2025	11:23	PP069075.D	9.11	3.98
PB166030BS	PB166030BS	01/13/2025	11:39	PP069076.D	9.11	3.98
TR-06-1-10-2025MS	Q1068-01MS	01/13/2025	12:44	PP069080.D	9.10	3.98
TR-06-1-10-2025MSD	Q1068-01MSD	01/13/2025	13:00	PP069081.D	9.10	3.98
AR1660CCC500	AR1660CCC500	01/13/2025	14:06	PP069084.D	9.11	3.98
IBLK	IBLK	01/13/2025	15:43	PP069088.D	9.11	3.98
AR1660CCC500	AR1660CCC500	01/14/2025	08:37	PP069104.D	9.10	3.98
IBLK	IBLK	01/14/2025	09:42	PP069108.D	9.10	3.98
RW7B-CARBON-20250109	Q1069-01	01/14/2025	10:24	PP069109.D	9.10	3.98
AR1660CCC500	AR1660CCC500	01/14/2025	13:55	PP069117.D	9.10	3.98
IBLK	IBLK	01/14/2025	15:00	PP069121.D	9.10	3.98

Analytical Sequence



QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:		
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:		
Client Sample ID:	PB166030BL		SDG No.:	Q1069	
Lab Sample ID:	PB166030BL		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069075.D	1	01/13/25 08:10	01/13/25 11:23	PB166030

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
12674-11-2	Aroclor-1016	8.30	U	3.40	8.30	17.0	ug/kg
11104-28-2	Aroclor-1221	13.0	U	6.40	13.0	17.0	ug/kg
11141-16-5	Aroclor-1232	13.0	U	3.40	13.0	17.0	ug/kg
53469-21-9	Aroclor-1242	8.30	U	3.40	8.30	17.0	ug/kg
12672-29-6	Aroclor-1248	13.0	U	7.90	13.0	17.0	ug/kg
11097-69-1	Aroclor-1254	13.0	U	2.70	13.0	17.0	ug/kg
37324-23-5	Aroclor-1262	8.30	U	4.60	8.30	17.0	ug/kg
11100-14-4	Aroclor-1268	13.0	U	3.40	13.0	17.0	ug/kg
11096-82-5	Aroclor-1260	8.30	U	2.90	8.30	17.0	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.1		44 - 130		96%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.4		60 - 125		97%	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

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.:	Q1069	
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:

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/13/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/13/25	
Client Sample ID:	PIBLK-PP069074.D		SDG No.:	Q1069	
Lab Sample ID:	I.BLK-PP069074.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
PP069074.D	1		01/13/25	PP011325

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	20.8		60 - 140		104%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.4		60 - 140		102%	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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/13/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/13/25	
Client Sample ID:	PIBLK-PP069088.D		SDG No.:	Q1069	
Lab Sample ID:	I.BLK-PP069088.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
PP069088.D	1		01/13/25	PP011325

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	21.0		60 - 140		105%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.6		60 - 140		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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/14/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/14/25	
Client Sample ID:	PIBLK-PP069108.D		SDG No.:	Q1069	
Lab Sample ID:	I.BLK-PP069108.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
PP069108.D	1		01/14/25	PP011425

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	21.1		60 - 140		105%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.8		60 - 140		104%	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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/14/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/14/25	
Client Sample ID:	PIBLK-PP069121.D		SDG No.:	Q1069	
Lab Sample ID:	I.BLK-PP069121.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
PP069121.D	1		01/14/25	PP011425

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	20.8		60 - 140		104%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.6		60 - 140		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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:		
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:		
Client Sample ID:	PB166030BS		SDG No.:	Q1069	
Lab Sample ID:	PB166030BS		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	30.01	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069076.D	1	01/13/25 08:10	01/13/25 11:39	PB166030

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
12674-11-2	Aroclor-1016	149		3.40	8.30	17.0	ug/kg
11104-28-2	Aroclor-1221	13.0	U	6.40	13.0	17.0	ug/kg
11141-16-5	Aroclor-1232	13.0	U	3.40	13.0	17.0	ug/kg
53469-21-9	Aroclor-1242	8.30	U	3.40	8.30	17.0	ug/kg
12672-29-6	Aroclor-1248	13.0	U	7.90	13.0	17.0	ug/kg
11097-69-1	Aroclor-1254	13.0	U	2.70	13.0	17.0	ug/kg
37324-23-5	Aroclor-1262	8.30	U	4.60	8.30	17.0	ug/kg
11100-14-4	Aroclor-1268	13.0	U	3.40	13.0	17.0	ug/kg
11096-82-5	Aroclor-1260	138		2.90	8.30	17.0	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.1		44 - 130		101%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.9		60 - 125		100%	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

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/10/25	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	01/10/25	
Client Sample ID:	TR-06-1-10-2025MS			SDG No.:	Q1069	
Lab Sample ID:	Q1068-01MS			Matrix:	SOIL	
Analytical Method:	SW8082A			% Solid:	90.5	Decanted:
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	PCB	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0	PH :				
Prep Method :	SW3541B					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069080.D	1	01/13/25 08:10	01/13/25 12:44	PB166030

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
12674-11-2	Aroclor-1016	175		3.70	9.20	18.8	ug/kg
11104-28-2	Aroclor-1221	14.4	U	7.10	14.4	18.8	ug/kg
11141-16-5	Aroclor-1232	14.4	U	3.80	14.4	18.8	ug/kg
53469-21-9	Aroclor-1242	9.20	U	3.70	9.20	18.8	ug/kg
12672-29-6	Aroclor-1248	14.4	U	8.70	14.4	18.8	ug/kg
11097-69-1	Aroclor-1254	14.4	U	3.00	14.4	18.8	ug/kg
37324-23-5	Aroclor-1262	9.20	U	5.00	9.20	18.8	ug/kg
11100-14-4	Aroclor-1268	14.4	U	3.80	14.4	18.8	ug/kg
11096-82-5	Aroclor-1260	173		3.20	9.20	18.8	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	22.5		44 - 130		112%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.0		60 - 125		95%	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

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	01/10/25	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	01/10/25	
Client Sample ID:	TR-06-1-10-2025MSD			SDG No.:	Q1069	
Lab Sample ID:	Q1068-01MSD			Matrix:	SOIL	
Analytical Method:	SW8082A			% Solid:	90.5	Decanted:
Sample Wt/Vol:	30.07	Units:	g	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	PCB	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0	PH :				
Prep Method :	SW3541B					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069081.D	1	01/13/25 08:10	01/13/25 13:00	PB166030

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
12674-11-2	Aroclor-1016	181		3.70	9.10	18.7	ug/kg
11104-28-2	Aroclor-1221	14.3	U	7.10	14.3	18.7	ug/kg
11141-16-5	Aroclor-1232	14.3	U	3.70	14.3	18.7	ug/kg
53469-21-9	Aroclor-1242	9.10	U	3.70	9.10	18.7	ug/kg
12672-29-6	Aroclor-1248	14.3	U	8.70	14.3	18.7	ug/kg
11097-69-1	Aroclor-1254	14.3	U	3.00	14.3	18.7	ug/kg
37324-23-5	Aroclor-1262	9.10	U	5.00	9.10	18.7	ug/kg
11100-14-4	Aroclor-1268	14.3	U	3.80	14.3	18.7	ug/kg
11096-82-5	Aroclor-1260	170		3.20	9.10	18.7	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	22.6		44 - 130		113%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.3		60 - 125		97%	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

LAB CHRONICLE

OrderID:	Q1069	OrderDate:	1/10/2025 1:20:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1069-02	RW7B-CARBON-20250109	TCLP			01/09/25			01/09/25
			TCLP Mercury	7470A		01/14/25	01/14/25	
			TCLPMetals Group1	6010D		01/14/25	01/17/25	

Hit Summary Sheet
SW-846

SDG No.:	Q1069	Order ID:	Q1069
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 : RW7B-CARBON-20250109									
Q1069-02	RW7B-CARBON-20250109	TCLP	Barium	425	J	62.8	125	500	ug/L
Q1069-02	RW7B-CARBON-20250109	TCLP	Mercury	0.94	J	0.81	1.60	2.00	ug/L



SAMPLE DATA

A

B

C

D

E

F

G

H

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109	SDG No.:	Q1069
Lab Sample ID:	Q1069-02	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	80.0	U	1	34.8	80.0	100	ug/L	01/14/25 11:30	01/17/25 14:10	SW6010	SW3050
7440-39-3	Barium	425	J	1	62.8	125	500	ug/L	01/14/25 11:30	01/17/25 14:10	SW6010	SW3050
7440-43-9	Cadmium	7.50	UN	1	0.94	7.50	30.0	ug/L	01/14/25 11:30	01/17/25 14:10	SW6010	SW3050
7440-47-3	Chromium	25.0	U	1	6.60	25.0	50.0	ug/L	01/14/25 11:30	01/17/25 14:10	SW6010	SW3050
7439-92-1	Lead	48.0	U	1	35.1	48.0	60.0	ug/L	01/14/25 11:30	01/17/25 14:10	SW6010	SW3050
7439-97-6	Mercury	0.94	J	1	0.81	1.60	2.00	ug/L	01/14/25 10:15	01/14/25 14:46	SW7470A	
7782-49-2	Selenium	80.0	U	1	58.8	80.0	100	ug/L	01/14/25 11:30	01/17/25 14:10	SW6010	SW3050
7440-22-4	Silver	25.0	U	1	5.80	25.0	50.0	ug/L	01/14/25 11:30	01/17/25 14:10	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	TCLP Mercury			

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1069

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069

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
ICV55	Mercury	3.69	4.0	92	90 - 110	CV	01/14/2025	14:00	LB134281

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1069

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069

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
CCV32	Mercury	4.99	5.0	100	90 - 110	CV	01/14/2025	14:07	LB134281
CCV33	Mercury	4.91	5.0	98	90 - 110	CV	01/14/2025	14:37	LB134281
CCV34	Mercury	4.69	5.0	94	90 - 110	CV	01/14/2025	15:12	LB134281
CCV35	Mercury	4.56	5.0	91	90 - 110	CV	01/14/2025	15:25	LB134281

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1069

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069

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	Arsenic	1030	1000	103	90 - 110	P	01/17/2025	11:21	LB134334
	Barium	487	520	94	90 - 110	P	01/17/2025	11:21	LB134334
	Cadmium	501	510	98	90 - 110	P	01/17/2025	11:21	LB134334
	Chromium	519	520	100	90 - 110	P	01/17/2025	11:21	LB134334
	Lead	999	1000	100	90 - 110	P	01/17/2025	11:21	LB134334
	Selenium	1030	1000	103	90 - 110	P	01/17/2025	11:21	LB134334
	Silver	250	250	100	90 - 110	P	01/17/2025	11:21	LB134334

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1069

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069

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	Arsenic	22.1	20.0	110	80 - 120	P	01/17/2025	11:26	LB134334
	Barium	84.8	100	85	80 - 120	P	01/17/2025	11:26	LB134334
	Cadmium	5.81	6.0	97	80 - 120	P	01/17/2025	11:26	LB134334
	Chromium	9.66	10.0	97	80 - 120	P	01/17/2025	11:26	LB134334
	Lead	13.0	12.0	108	80 - 120	P	01/17/2025	11:26	LB134334
	Selenium	21.1	20.0	105	80 - 120	P	01/17/2025	11:26	LB134334
	Silver	10.3	10.0	103	80 - 120	P	01/17/2025	11:26	LB134334

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1069

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069

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	Arsenic	4930	5000	99	90 - 110	P	01/17/2025	11:56	LB134334
	Barium	9940	10000	99	90 - 110	P	01/17/2025	11:56	LB134334
	Cadmium	2460	2500	98	90 - 110	P	01/17/2025	11:56	LB134334
	Chromium	1010	1000	101	90 - 110	P	01/17/2025	11:56	LB134334
	Lead	4950	5000	99	90 - 110	P	01/17/2025	11:56	LB134334
	Selenium	4900	5000	98	90 - 110	P	01/17/2025	11:56	LB134334
	Silver	1270	1250	101	90 - 110	P	01/17/2025	11:56	LB134334
CCV02	Arsenic	4980	5000	100	90 - 110	P	01/17/2025	12:47	LB134334
	Barium	9490	10000	95	90 - 110	P	01/17/2025	12:47	LB134334
	Cadmium	2430	2500	97	90 - 110	P	01/17/2025	12:47	LB134334
	Chromium	987	1000	99	90 - 110	P	01/17/2025	12:47	LB134334
	Lead	4860	5000	97	90 - 110	P	01/17/2025	12:47	LB134334
	Selenium	5030	5000	100	90 - 110	P	01/17/2025	12:47	LB134334
	Silver	1230	1250	99	90 - 110	P	01/17/2025	12:47	LB134334
CCV03	Arsenic	4730	5000	95	90 - 110	P	01/17/2025	13:36	LB134334
	Barium	9550	10000	96	90 - 110	P	01/17/2025	13:36	LB134334
	Cadmium	2340	2500	94	90 - 110	P	01/17/2025	13:36	LB134334
	Chromium	952	1000	95	90 - 110	P	01/17/2025	13:36	LB134334
	Lead	4700	5000	94	90 - 110	P	01/17/2025	13:36	LB134334
	Selenium	4760	5000	95	90 - 110	P	01/17/2025	13:36	LB134334
	Silver	1210	1250	96	90 - 110	P	01/17/2025	13:36	LB134334
CCV04	Arsenic	4910	5000	98	90 - 110	P	01/17/2025	14:27	LB134334
	Barium	9450	10000	94	90 - 110	P	01/17/2025	14:27	LB134334
	Cadmium	2420	2500	97	90 - 110	P	01/17/2025	14:27	LB134334
	Chromium	992	1000	99	90 - 110	P	01/17/2025	14:27	LB134334
	Lead	4840	5000	97	90 - 110	P	01/17/2025	14:27	LB134334
	Selenium	4940	5000	99	90 - 110	P	01/17/2025	14:27	LB134334
	Silver	1240	1250	99	90 - 110	P	01/17/2025	14:27	LB134334
CCV05	Arsenic	4770	5000	95	90 - 110	P	01/17/2025	15:34	LB134334
	Barium	9420	10000	94	90 - 110	P	01/17/2025	15:34	LB134334
	Cadmium	2370	2500	95	90 - 110	P	01/17/2025	15:34	LB134334
	Chromium	966	1000	97	90 - 110	P	01/17/2025	15:34	LB134334
	Lead	4750	5000	95	90 - 110	P	01/17/2025	15:34	LB134334
	Selenium	4780	5000	96	90 - 110	P	01/17/2025	15:34	LB134334

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: Q1069
Contract: TETR06 Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069
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	Silver	1210	1250	97	90 - 110	P	01/17/2025	15:34	LB134334
CCV06	Arsenic	4820	5000	96	90 - 110	P	01/17/2025	16:16	LB134334
	Barium	9630	10000	96	90 - 110	P	01/17/2025	16:16	LB134334
	Cadmium	2390	2500	96	90 - 110	P	01/17/2025	16:16	LB134334
	Chromium	968	1000	97	90 - 110	P	01/17/2025	16:16	LB134334
	Lead	4780	5000	96	90 - 110	P	01/17/2025	16:16	LB134334
	Selenium	4850	5000	97	90 - 110	P	01/17/2025	16:16	LB134334
	Silver	1220	1250	98	90 - 110	P	01/17/2025	16:16	LB134334
CCV07	Arsenic	4830	5000	96	90 - 110	P	01/17/2025	17:11	LB134334
	Barium	9180	10000	92	90 - 110	P	01/17/2025	17:11	LB134334
	Cadmium	2390	2500	96	90 - 110	P	01/17/2025	17:11	LB134334
	Chromium	970	1000	97	90 - 110	P	01/17/2025	17:11	LB134334
	Lead	4770	5000	95	90 - 110	P	01/17/2025	17:11	LB134334
	Selenium	4860	5000	97	90 - 110	P	01/17/2025	17:11	LB134334
	Silver	1210	1250	97	90 - 110	P	01/17/2025	17:11	LB134334
CCV08	Arsenic	4910	5000	98	90 - 110	P	01/17/2025	17:52	LB134334
	Barium	9420	10000	94	90 - 110	P	01/17/2025	17:52	LB134334
	Cadmium	2410	2500	97	90 - 110	P	01/17/2025	17:52	LB134334
	Chromium	988	1000	99	90 - 110	P	01/17/2025	17:52	LB134334
	Lead	4820	5000	96	90 - 110	P	01/17/2025	17:52	LB134334
	Selenium	4950	5000	99	90 - 110	P	01/17/2025	17:52	LB134334
	Silver	1230	1250	98	90 - 110	P	01/17/2025	17:52	LB134334

Metals

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CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1069
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	105	40 - 160	CV	01/14/2025	14:14	LB134281
CRI01	Arsenic	19.2	20.0	96	40 - 160	P	01/17/2025	11:35	LB134334
	Barium	85.3	100	85	40 - 160	P	01/17/2025	11:35	LB134334
	Cadmium	5.82	6.0	97	40 - 160	P	01/17/2025	11:35	LB134334
	Chromium	9.43	10.0	94	40 - 160	P	01/17/2025	11:35	LB134334
	Lead	12.4	12.0	104	40 - 160	P	01/17/2025	11:35	LB134334
	Selenium	20.7	20.0	104	40 - 160	P	01/17/2025	11:35	LB134334
	Silver	10.00	10.0	100	40 - 160	P	01/17/2025	11:35	LB134334



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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	Tetra Tech NUS, Inc.				SDG No.:	Q1069				
Contract:	TETR06	Lab Code:	CHEM	Case No.:	Q1069	SAS No.:	Q1069			
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB55	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	01/14/2025	14:02	LB134281

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1069
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB32	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	01/14/2025	14:09	LB134281
CCB33	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	01/14/2025	14:39	LB134281
CCB34	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	01/14/2025	15:14	LB134281
CCB35	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	01/14/2025	15:28	LB134281

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1069
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	11:30	LB134334
	Barium	100	+/-100	U	25.0	100	P	01/17/2025	11:30	LB134334
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/17/2025	11:30	LB134334
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	11:30	LB134334
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/17/2025	11:30	LB134334
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	11:30	LB134334
	Silver	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	11:30	LB134334

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.		SDG No.: Q1069								
Contract: TETR06	Lab Code: CHEM	Case No.: Q1069	SAS No.: Q1069							
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	12:00	LB134334
	Barium	100	+/-100	U	25.0	100	P	01/17/2025	12:00	LB134334
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/17/2025	12:00	LB134334
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	12:00	LB134334
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/17/2025	12:00	LB134334
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	12:00	LB134334
	Silver	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	12:00	LB134334
CCB02	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	12:51	LB134334
	Barium	100	+/-100	U	25.0	100	P	01/17/2025	12:51	LB134334
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/17/2025	12:51	LB134334
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	12:51	LB134334
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/17/2025	12:51	LB134334
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	12:51	LB134334
	Silver	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	12:51	LB134334
CCB03	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	13:41	LB134334
	Barium	100	+/-100	U	25.0	100	P	01/17/2025	13:41	LB134334
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/17/2025	13:41	LB134334
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	13:41	LB134334
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/17/2025	13:41	LB134334
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	13:41	LB134334
	Silver	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	13:41	LB134334
CCB04	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	14:31	LB134334
	Barium	100	+/-100	U	25.0	100	P	01/17/2025	14:31	LB134334
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/17/2025	14:31	LB134334
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	14:31	LB134334
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/17/2025	14:31	LB134334
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	14:31	LB134334
	Silver	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	14:31	LB134334
CCB05	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	15:38	LB134334
	Barium	100	+/-100	U	25.0	100	P	01/17/2025	15:38	LB134334
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/17/2025	15:38	LB134334
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	15:38	LB134334
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/17/2025	15:38	LB134334
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	15:38	LB134334
	Silver	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	15:38	LB134334
CCB06	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	16:20	LB134334
	Barium	100	+/-100	U	25.0	100	P	01/17/2025	16:20	LB134334
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/17/2025	16:20	LB134334
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	16:20	LB134334

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.		SDG No.: Q1069								
Contract: TETR06	Lab Code: CHEM	Case No.: Q1069	SAS No.: Q1069							
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/17/2025	16:20	LB134334
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	16:20	LB134334
	Silver	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	16:20	LB134334
CCB07	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	17:16	LB134334
	Barium	100	+/-100	U	25.0	100	P	01/17/2025	17:16	LB134334
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/17/2025	17:16	LB134334
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	17:16	LB134334
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/17/2025	17:16	LB134334
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	17:16	LB134334
	Silver	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	17:16	LB134334
CCB08	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	17:56	LB134334
	Barium	100	+/-100	U	25.0	100	P	01/17/2025	17:56	LB134334
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	01/17/2025	17:56	LB134334
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	17:56	LB134334
	Lead	12.0	+/-12.0	U	9.60	12.0	P	01/17/2025	17:56	LB134334
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	01/17/2025	17:56	LB134334
	Silver	10.0	+/-10.0	U	5.00	10.0	P	01/17/2025	17:56	LB134334

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q1069

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166026TB		WATER		Batch Number:		PB166051		Prep Date:	01/14/2025	
	Mercury	0.85	<2.00	J	1.60	2.00	CV	01/14/2025	15:09	LB134281
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166051BL		WATER		Batch Number:		PB166051		Prep Date:	01/14/2025	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	01/14/2025	14:35	LB134281

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q1069

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166026TB		WATER		Batch Number:		PB166049		Prep Date:	01/14/2025	
	Arsenic	100	<100	U	80.0	100	P	01/17/2025	12:42	LB134334
	Barium	500	<500	U	125	500	P	01/17/2025	12:42	LB134334
	Cadmium	30.0	<30.0	U	7.50	30.0	P	01/17/2025	12:42	LB134334
	Chromium	50.0	<50.0	U	25.0	50.0	P	01/17/2025	12:42	LB134334
	Lead	60.0	<60.0	U	48.0	60.0	P	01/17/2025	12:42	LB134334
	Selenium	100	<100	U	80.0	100	P	01/17/2025	12:42	LB134334
	Silver	50.0	<50.0	U	25.0	50.0	P	01/17/2025	12:42	LB134334
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166049BL		WATER		Batch Number:		PB166049		Prep Date:	01/14/2025	
	Arsenic	100	<100	U	80.0	100	P	01/17/2025	12:34	LB134334
	Barium	500	<500	U	125	500	P	01/17/2025	12:34	LB134334
	Cadmium	30.0	<30.0	U	7.50	30.0	P	01/17/2025	12:34	LB134334
	Chromium	50.0	<50.0	U	25.0	50.0	P	01/17/2025	12:34	LB134334
	Lead	60.0	<60.0	U	48.0	60.0	P	01/17/2025	12:34	LB134334
	Selenium	100	<100	U	80.0	100	P	01/17/2025	12:34	LB134334
	Silver	50.0	<50.0	U	25.0	50.0	P	01/17/2025	12:34	LB134334

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>Tetra Tech NUS, Inc.</u>	SDG No.: <u>Q1069</u>
Contract: <u>TETR06</u>	Lab Code: <u>CHEM</u>
ICS Source: <u>EPA</u>	Case No.: <u>Q1069</u>
	SAS No.: <u>Q1069</u>
	Instrument ID: <u>P4</u>

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	Arsenic	1.85			-20	20	01/17/2025	11:39	LB134334
	Barium	-1.17	6.0	20	-94	106	01/17/2025	11:39	LB134334
	Cadmium	-1.59	1.0	159	-5	7	01/17/2025	11:39	LB134334
	Chromium	55.0	52.0	106	42	62	01/17/2025	11:39	LB134334
	Lead	9.67			-12	12	01/17/2025	11:39	LB134334
	Selenium	-13.6			-20	20	01/17/2025	11:39	LB134334
	Silver	-2.42			-10	10	01/17/2025	11:39	LB134334
ICSAB01	Arsenic	110	104	106	88.4	120	01/17/2025	11:43	LB134334
	Barium	455	537	85	437	637	01/17/2025	11:43	LB134334
	Cadmium	971	972	100	826	1120	01/17/2025	11:43	LB134334
	Chromium	560	542	103	460	624	01/17/2025	11:43	LB134334
	Lead	57.5	49.0	117	37	61	01/17/2025	11:43	LB134334
	Selenium	31.7	46.0	69	26	66	01/17/2025	11:43	LB134334
	Silver	216	201	108	170	232	01/17/2025	11:43	LB134334



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>Tetra Tech NUS, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q1069</u>
contract: <u>TETR06</u>	lab code: <u>CHEM</u>	case no.: <u>Q1069</u> sas no.: <u>Q1069</u>
matrix: <u>Water</u>	sample id: <u>Q1036-02</u>	client id: <u>NP-WS-002MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1036-02MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	87 - 113	3820		100	U	4000	96		P
Barium	ug/L	88 - 113	979		79.8	J	1000	90		P
Cadmium	ug/L	88 - 113	903		30.0	U	1000	90		P
Chromium	ug/L	90 - 113	1960		6.61	J	2000	98		P
Lead	ug/L	86 - 113	4530		60.0	U	5000	91		P
Selenium	ug/L	83 - 114	9000		100	U	10000	90		P
Silver	ug/L	84 - 115	353		50.0	U	380	93		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Tetra Tech NUS, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q1069</u>
contract: <u>TETR06</u>	lab code: <u>CHEM</u>	case no.: <u>Q1069</u> sas no.: <u>Q1069</u>
matrix: <u>Water</u>	sample id: <u>Q1036-02</u>	client id: <u>NP-WS-002MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1036-02MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	87 - 113	3720		100	U	4000	93		P
Barium	ug/L	88 - 113	964		79.8	J	1000	88		P
Cadmium	ug/L	88 - 113	879		30.0	U	1000	88	N	P
Chromium	ug/L	90 - 113	1950		6.61	J	2000	97		P
Lead	ug/L	86 - 113	4420		60.0	U	5000	88		P
Selenium	ug/L	83 - 114	8780		100	U	10000	88		P
Silver	ug/L	84 - 115	350		50.0	U	380	92		P

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	Tetra Tech NUS, Inc.	level:	low	sdg no.:	Q1069		
contract:	TETR06	lab code:	CHEM	case no.:	Q1069	sas no.:	Q1069
matrix:	Water	sample id:	Q1076-02	client id:	ARS20-0006MS		
Percent Solids for Sample:	NA	Spiked ID:	Q1076-02MS	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	40.3		2.00	U	40.0	101		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Tetra Tech NUS, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q1069</u>
contract: <u>TETR06</u>	lab code: <u>CHEM</u>	case no.: <u>Q1069</u> sas no.: <u>Q1069</u>
matrix: <u>Water</u>	sample id: <u>Q1076-02</u>	client id: <u>ARS20-0006MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1076-02MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	40.2		2.00	U	40.0	100		CV

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q1069

Contract: TETR06

Lab Code: CHEM

Case No.: Q1069

SAS No.: Q1069

Matrix: Water

Level: LOW

Client ID: NP-WS-002A

Sample ID: Q1036-02

Spiked ID: Q1036-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cadmium	ug/L	88 - 113	903		30.0	U	1000	90		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q1069
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069
Matrix: Water **Sample ID:** Q1036-02 **Client ID:** NP-WS-002DUP
Percent Solids for Sample: NA **Duplicate ID** Q1036-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	79.8	J	82.6	J	3		P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	6.61	J	17.6	J	91		P
Lead	ug/L	20	60.0	U	60.0	U			P
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q1069
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069
Matrix: Water **Sample ID:** Q1036-02MS **Client ID:** NP-WS-002MSD
Percent Solids for Sample: NA **Duplicate ID** Q1036-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3820		3720		3		P
Barium	ug/L	20	979		964		2		P
Cadmium	ug/L	20	903		879		3		P
Chromium	ug/L	20	1960		1950		1		P
Lead	ug/L	20	4530		4420		2		P
Selenium	ug/L	20	9000		8780		2		P
Silver	ug/L	20	353		350		1		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q1069
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069
Matrix: Water **Sample ID:** Q1076-02 **Client ID:** ARS20-0006DUP
Percent Solids for Sample: NA **Duplicate ID** Q1076-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	2.00	U	2.00	U			CV

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q1069
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069
Matrix: Water **Sample ID:** Q1076-02MS **Client ID:** ARS20-0006MSD
Percent Solids for Sample: NA **Duplicate ID** Q1076-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	40.3		40.2		0		CV

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1069
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166049BS							
Arsenic	ug/L	4000	3860		96	87 - 113	P
Barium	ug/L	1000	891		89	88 - 113	P
Cadmium	ug/L	1000	935		94	88 - 113	P
Chromium	ug/L	2000	2000		100	90 - 113	P
Lead	ug/L	5000	4740		95	86 - 113	P
Selenium	ug/L	10000	9430		94	83 - 114	P
Silver	ug/L	380	375		99	84 - 115	P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1069
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166051BS Mercury	ug/L	4.0	3.65		91	82 - 119	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

NP-WS-002L

Lab Name: Chemtech Consulting Group **Contract:** TETR06
Lab Code: CHEM **Lb No.:** lb134334 **Lab Sample ID :** Q1036-02L **SDG No.:** Q1069
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Arsenic	100	U	500	U			P
Barium	79.8	J	2500	U	100.0		P
Cadmium	30.0	U	150	U			P
Chromium	6.61	J	250	U	100.0		P
Lead	60.0	U	300	U			P
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

ARS20-0006L

Lab Name: Chemtech Consulting Group

Contract: TETR06

Lab Code: CHEM

Lb No.: lb134281

Lab Sample ID : Q1076-02L

SDG No.: Q1069

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	2.00 U	10.0 U			CV



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1069
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069
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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q1069

Contract: TETR06

Lab Code: CHEM

Case No.: Q1069

SAS No.: Q1069

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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q1069

Contract: TETR06

Lab Code: CHEM

Case No.: Q1069

SAS No.: Q1069

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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q1069
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q1069 **SAS No.:** Q1069
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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q1069

Contract: TETR06

Lab Code: CHEM

Case No.: Q1069

SAS No.: Q1069

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
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
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	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



METAL PREPARATION & ANALYICAL SUMMARY

Metals
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SAMPLE PREPARATION SUMMARY

Client:

Tetra Tech NUS, Inc.

Contract:

TETR06

Lab Code:

CHEM

SDG No.:

Q1069

Method:

Case No.:

Q1069

SAS No.:

Q1069

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB166049							
PB166026TB	PB166026TB	MB	WATER	01/14/2025	5.0	25.0	
PB166049BL	PB166049BL	MB	WATER	01/14/2025	5.0	25.0	
PB166049BS	PB166049BS	LCS	WATER	01/14/2025	5.0	25.0	
Q1036-02DUP	NP-WS-002DUP	DUP	WATER	01/14/2025	5.0	25.0	
Q1036-02MS	NP-WS-002MS	MS	WATER	01/14/2025	5.0	25.0	
Q1036-02MSD	NP-WS-002MSD	MSD	WATER	01/14/2025	5.0	25.0	
Q1069-02	RW7B-CARBON-20250109	SAM	WATER	01/14/2025	5.0	25.0	

Metals
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SAMPLE PREPARATION SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	SDG No.:	<u>Q1069</u>
Contract:	<u>TETR06</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1069</u>
		SAS No.:	<u>Q1069</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB166051							
PB166026TB	PB166026TB	MB	WATER	01/14/2025	3.0	30.0	
PB166051BL	PB166051BL	MB	WATER	01/14/2025	30.0	30.0	
PB166051BS	PB166051BS	LCS	WATER	01/14/2025	30.0	30.0	
Q1069-02	RW7B-CARBON-20250109	SAM	WATER	01/14/2025	3.0	30.0	
Q1076-02DUP	ARS20-0006DUP	DUP	WATER	01/14/2025	3.0	30.0	
Q1076-02MS	ARS20-0006MS	MS	WATER	01/14/2025	3.0	30.0	
Q1076-02MSD	ARS20-0006MSD	MSD	WATER	01/14/2025	3.0	30.0	

metals
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ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** Q1069 **Sas no.:** Q1069 **Sdg no.:** Q1069

Instrument id number: **Method:** **Run number:** LB134281

Start date: 01/14/2025 **End date:** 01/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1338	HG
S0.2	S0.2	1	1340	HG
S2.5	S2.5	1	1342	HG
S5	S5	1	1345	HG
S7.5	S7.5	1	1352	HG
S10	S10	1	1357	HG
ICV55	ICV55	1	1400	HG
ICB55	ICB55	1	1402	HG
CCV32	CCV32	1	1407	HG
CCB32	CCB32	1	1409	HG
CRA	CRA	1	1414	HG
PB166051BL	PB166051BL	1	1435	HG
CCV33	CCV33	1	1437	HG
CCB33	CCB33	1	1439	HG
PB166051BS	PB166051BS	1	1442	HG
Q1069-02	RW7B-CARBON-20250109	1	1446	HG
Q1076-02DUP	ARS20-0006DUP	1	1500	HG
Q1076-02MS	ARS20-0006MS	1	1502	HG
Q1076-02MSD	ARS20-0006MSD	1	1505	HG
PB166026TB	PB166026TB	1	1509	HG
CCV34	CCV34	1	1512	HG
CCB34	CCB34	1	1514	HG
Q1076-02L	ARS20-0006L	5	1521	HG
CCV35	CCV35	1	1525	HG
CCB35	CCB35	1	1528	HG

metals
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ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** Q1069 **Sas no.:** Q1069 **Sdg no.:** Q1069

Instrument id number: **Method:** **Run number:** LB134334

Start date: 01/17/2025 **End date:** 01/17/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1051	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1055	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1059	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1104	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1108	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1112	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1121	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1126	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1130	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1135	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1139	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1143	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1156	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1200	Ag,As,Ba,Cd,Cr,Pb,Se
PB166049BL	PB166049BL	1	1234	Ag,As,Ba,Cd,Cr,Pb,Se
PB166049BS	PB166049BS	1	1238	Ag,As,Ba,Cd,Cr,Pb,Se
PB166026TB	PB166026TB	1	1242	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1247	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1251	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1336	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1341	Ag,As,Ba,Cd,Cr,Pb,Se
Q1036-02DUP	NP-WS-002DUP	1	1349	Ag,As,Ba,Cd,Cr,Pb,Se
Q1036-02L	NP-WS-002L	5	1353	Ag,As,Ba,Cd,Cr,Pb,Se
Q1036-02MS	NP-WS-002MS	1	1358	Ag,As,Ba,Cd,Cr,Pb,Se
Q1036-02MSD	NP-WS-002MSD	1	1402	Ag,As,Ba,Cd,Cr,Pb,Se
Q1036-02A	NP-WS-002A	1	1406	Cd
Q1069-02	RW7B-CARBON-20250109	1	1410	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1427	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1431	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1534	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1538	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1616	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1620	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1711	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1716	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1752	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1756	Ag,As,Ba,Cd,Cr,Pb,Se

LAB CHRONICLE

OrderID:	Q1069	OrderDate:	1/10/2025 1:20:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1069-01	RW7B-CARBON-20250 109	SOIL			01/09/25 14:00			01/09/25
			Ignitability	1030			01/13/25 15:25	
			pH	9045D			01/13/25 09:20	



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25 14:00
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109	SDG No.:	Q1069
Lab Sample ID:	Q1069-01	Matrix:	SOIL
		% Solid:	55.6

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ignitability	NO		1	0	0	0	oC		01/13/25 15:25	1030
pH	5.57	H	1	0	0	0	pH		01/13/25 09:20	9045D

Comments: pH result reported at temperature 20.7 °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

Initial and Continuing Calibration Verification

Client: Tetra Tech NUS, Inc.

SDG No.: Q1069

Project: NWIRP Bethpage 112G08005-WE13

RunNo.: LB134243

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV pH	pH	7.02	7	100	90-110	01/13/2025
Sample ID: CCV1 pH	pH	2.01	2.00	101	90-110	01/13/2025
Sample ID: CCV2 pH	pH	12.02	12.00	100	90-110	01/13/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q1069
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q1065-01
Client ID:	MOO-25-0002DUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		01/13/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q1069
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q1069-01
Client ID:	RW7B-CARBON-20250109DUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
pH	pH	+/-20	5.57		5.58		1	0.18		01/13/2025



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 78-8922

www.chemtech.net

Chemtech Project Number:

Q1069

COC Number:

10

10.1

CLIENT INFORMATION

COMPANY: Tetra Tech

ADDRESS: 4433 Corporation Ln, Suite 300

CITY: Virginia Beach STATE: VA ZIP: 23462

ATTENTION: Ernie Wu

PHONE: 757-466-4901

FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage

PROJECT #: 112G08005-WE13

LOCATION: Carbon IDW

PROJECT MANAGER: Dave Brayack

E-MAIL: david.brayack@tetratech.com

PHONE: 757-466-4909

FAX: 757-461-4148

BILLING INFORMATION

BILL TO: SEE CONTRACT

PO#

ADDRESS:

CITY:

STATE: ZIP:

ATTENTION:

PHONE:

DATA TURNAROUND INFORMATION

FAX: 10 DAYS*

HARD COPY: 10 DAYS*

EDD 10 DAYS*

* TO BE APPROVED BY CHEMTECH

STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

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

ANALYSIS

TCL SVOC (total)

Flash point

TCLP VOC

TCLP Metals (RCRA 8)

PCB

pH

1

2

3

4

5

6

7

8

9

PRESERVATIVES

COMMENTS

<-- Specify Preservatives

A-HCl B-HNO3

C-H2SO4 D-NaOH

E-ICE F-Other

CHEMTECH
SAMPLE
IDPROJECT
SAMPLE IDENTIFICATIONSAMPLE
MATRIXSAMPLE
TYPE
COMP GRABSAMPLE
COLLECTION
DATE TIME

of Bottles

1

2

3

4

5

6

7

8

9

1.

RW7B-Carbon-20250109

Granular Activated Carbon

X

1/9/25

14:00

6

1

1

1

1

1

1

2.

3.

4.

5.

6.

7.

8.

9.

10.

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

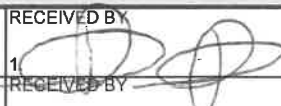
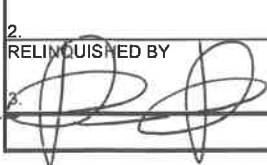
RELINQUISHED BY SAMPLER

DATE/TIME

RECEIVED BY

1. 
RELINQUISHED BY

1/9/25 1530

1. 
RECEIVED BY2. 
RELINQUISHED BY

DATE/TIME

RECEIVED FOR LAB BY

1-9-25

3.
RECEIVED BY

Conditions of bottles or coolers at receipt:

☐ Compliant☐ Non Compliant☐ Cooler Temp 2.5°C

MeOH extraction requires an additional 4oz. Jar for percent solid

☐ Ice in Cooler?:

Comments: 5 Day TAT - CTO-WE13 RW7B Carbon Sampling

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

Shipment Complete

☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

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