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

ANALYTICAL RESULTS SUMMARY

GENERAL CHEMISTRY
METALS
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 : Q2375

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

Table Of Contents for Q2375

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Cover Page

Order ID : Q2375

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q2375-01	RW8-SP100-20250619
Q2375-02	RW8-SP303-20250619

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 2:48 pm, Jun 30, 2025

Date: 6/30/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager # Ernie Wu
Order ID # Q2375
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
2 Water samples were received on 06/19/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group4, SVOC-SIMGroup1, TDS and TSS. This data package contains results for SVOC-SIMGroup1.

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

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

The Continuous Calibration File ID BN037403.D met the requirements except for 2,4,6-Tribromophenol ,The Failure Surrogate is not Associated with DOD Parameter list,Therefore no Corrective Action was taken.

The Tuning criteria met requirements.

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The Sample #RW8-SP100-20250619 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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The not QT review data is reported in the Miscellaneous.

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

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

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

Signature____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 2:48 pm, Jun 30, 2025

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager : Ernie Wu
Order ID # Q2375
Test Name: Metals Group4

A. Number of Samples and Date of Receipt:
2 Water samples were received on 06/19/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Metals Group4, SVOC-SIMGroup1, TDS and TSS. This data package contains results for Metals Group4.

C. Analytical Techniques:
The analysis of Metals Group4 was based on method 6010D and digestion based on method 3010 (waters).

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all parameters.
The Duplicate analysis met criteria for all parameters.
The Matrix Spike analysis met criteria for all parameters.
The Matrix Spike Duplicate analysis met criteria for all parameters.
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 2:48 pm, Jun 30, 2025

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager : Ernie Wu
Order ID # Q2375
Test Name: TDS,TSS

A. Number of Samples and Date of Receipt:
2 Water samples were received on 06/19/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Metals Group4, SVOC-SIMGroup1, TDS and TSS. This data package contains results for TDS,TSS.

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all parameter.
The Duplicate analysis met criteria for all parameter.
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 2:48 pm, Jun 30, 2025

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Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

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

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

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908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2375

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: MOHAMMAD AHMED **Date:** 06/30/2025

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LAB CHRONICLE

OrderID:	Q2375	**OrderDate:**	6/19/2025 3:57:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	D51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2375-01	**RW8-SP100-20250619**	**Water**			**06/19/25**			**06/19/25**
			SVOC-SIMGroup1	8270-Modified		06/20/25	06/27/25	
Q2375-02	**RW8-SP303-20250619**	**Water**			**06/19/25**			**06/19/25**
			SVOC-SIMGroup1	8270-Modified		06/20/25	06/27/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2375

Client: Tetra Tech NUS, Inc.

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

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/19/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/19/25
Client Sample ID:	RW8-SP100-20250619	SDG No.:	Q2375
Lab Sample ID:	Q2375-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037413.D	1	06/20/25 12:03	06/27/25 03:41	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1850	7.567				
1146-65-2	Naphthalene-d8	4080	10.34				
15067-26-2	Acenaphthene-d10	2810	14.213				
1517-22-2	Phenanthrene-d10	5410	16.971				
1719-03-5	Chrysene-d12	5170	21.161				
1520-96-3	Perylene-d12	5490	23.345				

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/19/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/19/25
Client Sample ID:	RW8-SP303-20250619	SDG No.:	Q2375
Lab Sample ID:	Q2375-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037414.D	1	06/20/25 12:03	06/27/25 04:18	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1770	7.568				
1146-65-2	Naphthalene-d8	3840	10.34				
15067-26-2	Acenaphthene-d10	2720	14.213				
1517-22-2	Phenanthrene-d10	5440	16.971				
1719-03-5	Chrysene-d12	5380	21.162				
1520-96-3	Perylene-d12	5620	23.345				

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

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2375

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168563BL	PB168563BL	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.37	93		58	132
PB168563BS	PB168563BS	2-Methylnaphthalene-d10	0.4	0.49	123		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
PB168563BSD	PB168563BSD	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.38	94		58	132
Q2375-01	RW8-SP100-20250619	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.45	112		58	132
Q2375-02	RW8-SP303-20250619	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.46	116		58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2375

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037363.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168563BS	1,4-Dioxane	0.4	0.32	ug/L	80				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2375

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037364.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168563BSD	1,4-Dioxane	0.4	0.30	ug/L	75	6			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168563BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2375 SAS No.: Q2375 SDG NO.: Q2375

Lab File ID: BN037361.D Lab Sample ID: PB168563BL

Instrument ID: BNA_N Date Extracted: 06/20/2025

Matrix: (soil/water) Water Date Analyzed: 06/20/2025

Level: (low/med) LOW Time Analyzed: 22:16

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168563BS	PB168563BS	BN037363.D	06/20/2025
PB168563BSD	PB168563BSD	BN037364.D	06/21/2025
RW8-SP100-20250619	Q2375-01	BN037413.D	06/27/2025
RW8-SP303-20250619	Q2375-02	BN037414.D	06/27/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2375 SDG NO.: Q2375

Lab File ID: BN037351.D DFTPP Injection Date: 06/20/2025

Instrument ID: BNA_N DFTPP Injection Time: 15:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.7) 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	6.8
365	Greater than 1% of mass 198	4.9
441	Present, but less than mass 443	85.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.4 (20) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037353.D	06/20/2025	16:51
SSTDICC0.2	SSTDICC0.2	BN037354.D	06/20/2025	17:27
SSTDICCC0.4	SSTDICCC0.4	BN037355.D	06/20/2025	18:03
SSTDICC0.8	SSTDICC0.8	BN037356.D	06/20/2025	18:39
SSTDICC1.6	SSTDICC1.6	BN037357.D	06/20/2025	19:15
SSTDICC3.2	SSTDICC3.2	BN037358.D	06/20/2025	19:51
SSTDICC5.0	SSTDICC5.0	BN037359.D	06/20/2025	20:27
PB168563BL	PB168563BL	BN037361.D	06/20/2025	22:16
PB168563BS	PB168563BS	BN037363.D	06/20/2025	23:28
PB168563BSD	PB168563BSD	BN037364.D	06/21/2025	00:04
SSTDCCC0.4EC	SSTDCCC0.4	BN037365.D	06/21/2025	01:17

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2375 SDG NO.: Q2375

Lab File ID: BN037385.D DFTPP Injection Date: 06/26/2025

Instrument ID: BNA_N DFTPP Injection Time: 10:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.3 (0.9) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 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	7.1
365	Greater than 1% of mass 198	4.9
441	Present, but less than mass 443	78.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.1 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037386.D	06/26/2025	10:41
SSTDICC0.2	SSTDICC0.2	BN037387.D	06/26/2025	11:17
SSTDICCC0.4	SSTDICCC0.4	BN037388.D	06/26/2025	11:53
SSTDICC0.8	SSTDICC0.8	BN037389.D	06/26/2025	12:29
SSTDICC1.6	SSTDICC1.6	BN037390.D	06/26/2025	13:05
SSTDICC3.2	SSTDICC3.2	BN037391.D	06/26/2025	13:41
SSTDICC5.0	SSTDICC5.0	BN037392.D	06/26/2025	14:17

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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2375 SDG NO.: Q2375

Lab File ID: BN037402.D DFTPP Injection Date: 06/26/2025

Instrument ID: BNA_N DFTPP Injection Time: 20:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.1 (0.5) 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	7.3
365	Greater than 1% of mass 198	6.1
441	Present, but less than mass 443	83.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	13.7 (19) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037403.D	06/26/2025	21:38
RW8-SP100-20250619	Q2375-01	BN037413.D	06/27/2025	03:41
RW8-SP303-20250619	Q2375-02	BN037414.D	06/27/2025	04:18
SSTDCCC0.4EC	SSTDCCC0.4	BN037415.D	06/27/2025	04:54

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2375 SAS No.: Q2375 SDG NO.: Q2375

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/20/2025

Lab File ID: BN037355.D Time Analyzed: 18:03

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	1912	7.568	4157	10.34	2811	14.21
	UPPER LIMIT	3824	8.068	8314	10.84	5622	14.713
	LOWER LIMIT	956	7.068	2078.5	9.84	1405.5	13.713
	EPA SAMPLE NO.						
01	PB168563BL	1968	7.57	4045	10.35	2736	14.22
02	PB168563BS	1960	7.57	4204	10.34	2586	14.21
03	PB168563BSD	1885	7.57	4095	10.34	2623	14.21

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2375 SAS No.: Q2375 SDG NO.: Q2375

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/20/2025

Lab File ID: BN037355.D Time Analyzed: 18:03

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	5776	16.971	4813	21.171	4943	23.354
	UPPER LIMIT	11552	17.471	9626	21.671	9886	23.854
	LOWER LIMIT	2888	16.471	2406.5	20.671	2471.5	22.854
	EPA SAMPLE NO.						
01	PB168563BL	4864	16.98	4288	21.17	3457	23.36
02	PB168563BS	4830	16.97	3875	21.17	2749	23.35
03	PB168563BSD	5035	16.97	4193	21.16	4470	23.35

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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2375 SAS No.: Q2375 SDG NO.: Q2375

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/26/2025

Lab File ID: BN037403.D Time Analyzed: 21:38

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	1253	7.56	2741	10.34	1842	14.21
	UPPER LIMIT	2506	8.06	5482	10.84	3684	14.713
	LOWER LIMIT	626.5	7.06	1370.5	9.84	921	13.713
	EPA SAMPLE NO.						
01	RW8-SP100-20250619	1845	7.57	4080	10.34	2805	14.21
02	RW8-SP303-20250619	1773	7.57	3842	10.34	2717	14.21

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2375 SAS No.: Q2375 SDG NO.: Q2375

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/26/2025

Lab File ID: BN037403.D Time Analyzed: 21:38

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	3978	16.959	3956	21.162	4281	23.342
	UPPER LIMIT	7956	17.459	7912	21.662	8562	23.842
	LOWER LIMIT	1989	16.459	1978	20.662	2140.5	22.842
	EPA SAMPLE NO.						
01	RW8-SP100-20250619	5405	16.97	5167	21.16	5486	23.35
02	RW8-SP303-20250619	5443	16.97	5375	21.16	5619	23.35

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

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

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

QC SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168563BL	SDG No.:	Q2375
Lab Sample ID:	PB168563BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037361.D	1	06/20/25 12:03	06/20/25 22:16	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		93%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1970	7.568				
1146-65-2	Naphthalene-d8	4050	10.351				
15067-26-2	Acenaphthene-d10	2740	14.224				
1517-22-2	Phenanthrene-d10	4860	16.984				
1719-03-5	Chrysene-d12	4290	21.171				
1520-96-3	Perylene-d12	3460	23.357				

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168563BS	SDG No.:	Q2375
Lab Sample ID:	PB168563BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037363.D	1	06/20/25 12:03	06/20/25 23:28	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.49		30 - 150		123%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1960	7.568				
1146-65-2	Naphthalene-d8	4200	10.34				
15067-26-2	Acenaphthene-d10	2590	14.213				
1517-22-2	Phenanthrene-d10	4830	16.971				
1719-03-5	Chrysene-d12	3880	21.171				
1520-96-3	Perylene-d12	2750	23.351				

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168563BSD	SDG No.:	Q2375
Lab Sample ID:	PB168563BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037364.D	1	06/20/25 12:03	06/21/25 00:04	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		94%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1890	7.568				
1146-65-2	Naphthalene-d8	4100	10.34				
15067-26-2	Acenaphthene-d10	2620	14.213				
1517-22-2	Phenanthrene-d10	5040	16.971				
1719-03-5	Chrysene-d12	4190	21.162				
1520-96-3	Perylene-d12	4470	23.354				

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

CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN062125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 20 23:41:54 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037353.D 0.2 =BN037354.D 0.4 =BN037355.D 0.8 =BN037356.D 1.6 =BN037357.D 3.2 =BN037358.D 5 =BN037359.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane		0.506	0.390	0.412	0.417	0.370	0.346	0.407	13.63
3)		n-Nitrosodimet...		0.392	0.394	0.367	0.391	0.354	0.338	0.373	6.37
4)	S	2-Fluorophenol	0.854	0.818	0.751	0.781	0.834	0.786	0.771	0.799	4.65
5)	S	Phenol-d6	0.781	0.766	0.766	0.785	0.891	0.878	0.896	0.823	7.45
6)		bis(2-Chloroet...	0.719	0.546	0.707	0.738	0.826	0.786	0.791	0.730	12.59
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.254	0.292	0.319	0.318	0.363	0.354	0.361	0.323	12.43
9)		Naphthalene	1.056	1.056	1.046	1.014	1.105	1.052	1.063	1.056	2.54
10)		Hexachlorobuta...	0.452	0.434	0.441	0.407	0.424	0.384	0.376	0.417	6.95
11)	SURR	2-Methylnaphth...	0.619	0.638	0.666	0.610	0.666	0.664	0.675	0.648	3.96
12)		2-Methylnaphth...	0.703	0.692	0.711	0.704	0.777	0.778	0.787	0.736	5.73
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.219	0.226	0.230	0.231	0.253	0.238	0.246	0.235	4.96
15)	S	2-Fluorobiphenyl	1.705	1.675	1.777	1.714	1.897	1.752	1.778	1.757	4.15
16)		Acenaphthylene	1.646	1.636	1.597	1.595	1.797	1.717	1.786	1.682	5.06
17)		Acenaphthene	1.108	1.070	1.061	1.051	1.174	1.123	1.160	1.107	4.40
18)		Fluorene	1.499	1.470	1.506	1.490	1.660	1.605	1.660	1.556	5.34
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.070	0.079	0.097	0.110	0.107	0.114	0.096	18.63
21)		4-Bromophenyl-...	0.264	0.267	0.279	0.284	0.305	0.295	0.299	0.285	5.55
22)		Hexachlorobenzene	0.322	0.319	0.314	0.304	0.324	0.296	0.292	0.310	4.11
23)		Atrazine	0.221	0.215	0.218	0.220	0.239	0.239	0.238	0.227	4.74
24)		Pentachlorophenol		0.131	0.137	0.157	0.169	0.161	0.170	0.154	10.69
25)		Phenanthrene	1.108	1.075	1.104	1.139	1.242	1.221	1.222	1.158	5.88
26)		Anthracene	0.993	0.984	0.990	1.054	1.150	1.137	1.171	1.068	7.75
27)	SURR	Fluoranthene-d10	1.097	1.070	1.161	1.166	1.235	1.151	1.158	1.148	4.62
28)		Fluoranthene	1.412	1.343	1.367	1.492	1.605	1.512	1.518	1.464	6.39
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.726	1.690	1.660	1.444	1.572	1.642	1.643	1.625	5.73
31)	S	Terphenyl-d14	0.949	0.911	0.925	0.829	0.909	0.935	0.921	0.912	4.25
32)		Benzo(a)anthra...	1.309	1.168	1.216	1.278	1.431	1.372	1.429	1.315	7.76
33)		Chrysene	1.752	1.706	1.611	1.481	1.586	1.528	1.495	1.594	6.52
34)		Bis(2-ethylhex...		0.606	0.541	0.487	0.520	0.531	0.554	0.540	7.34
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN062125.M

36)		Indeno(1,2,3-c...	1.741	1.715	1.695	1.761	1.974	1.819	1.856	1.794	5.42
37)		Benzo(b)fluora...	1.428	1.380	1.444	1.392	1.541	1.532	1.587	1.472	5.50
38)		Benzo(k)fluora...	1.576	1.593	1.569	1.466	1.671	1.617	1.686	1.597	4.59
39)	C	Benzo(a)pyrene	1.320	1.249	1.274	1.247	1.399	1.348	1.395	1.319	4.90
40)		Dibenzo(a,h)an...	1.179	1.185	1.236	1.355	1.561	1.446	1.478	1.348	11.32
41)		Benzo(g,h,i)pe...	1.620	1.554	1.589	1.560	1.720	1.577	1.598	1.603	3.53

(#) = Out of Range

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN062625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 26 16:06:33 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037386.D 0.2 =BN037387.D 0.4 =BN037388.D 0.8 =BN037389.D 1.6 =BN037390.D 3.2 =BN037391.D 5 =BN037392.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.470	0.369	0.366	0.377	0.363	0.331	0.379		12.38
3)		n-Nitrosodimet...	0.377	0.374	0.366	0.385	0.374	0.371	0.375		1.73
4)	S	2-Fluorophenol	0.771	0.778	0.804	0.697	0.754	0.773	0.818	0.771	5.09
5)	S	Phenol-d6	0.663	0.706	0.812	0.737	0.839	0.886	0.951	0.799	12.86
6)		bis(2-Chloroet...	0.574	0.661	0.718	0.694	0.765	0.775	0.790	0.711	10.74
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.270	0.281	0.311	0.296	0.345	0.353	0.389	0.321	13.45
9)		Naphthalene	1.042	1.001	0.999	0.972	1.048	1.050	1.096	1.030	4.06
10)		Hexachlorobuta...	0.407	0.410	0.413	0.400	0.422	0.404	0.405	0.409	1.74
11)	SURR	2-Methylnaphth...	0.532	0.567	0.576	0.568	0.628	0.656	0.807	0.619	14.98
12)		2-Methylnaphth...	0.635	0.665	0.684	0.662	0.746	0.767	0.803	0.709	8.89
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.194	0.207	0.239	0.225	0.251	0.256	0.271	0.235	11.68
15)	S	2-Fluorobiphenyl	1.548	1.656	1.723	1.652	1.798	1.801	1.910	1.727	6.95
16)		Acenaphthylene	1.585	1.600	1.576	1.538	1.714	1.741	1.858	1.659	6.95
17)		Acenaphthene	1.030	1.027	1.045	1.009	1.123	1.147	1.203	1.083	6.85
18)		Fluorene	1.444	1.417	1.476	1.420	1.603	1.643	1.706	1.530	7.74
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.084	0.085	0.087	0.113	0.119	0.128	0.103		19.13
21)		4-Bromophenyl-...	0.264	0.253	0.270	0.269	0.303	0.302	0.316	0.282	8.58
22)		Hexachlorobenzene	0.310	0.299	0.302	0.291	0.311	0.301	0.311	0.303	2.45
23)		Atrazine	0.200	0.208	0.213	0.204	0.232	0.242	0.266	0.224	10.81
24)		Pentachlorophenol	0.164	0.155	0.148	0.165	0.168	0.183	0.164		7.30
25)		Phenanthrene	1.056	1.067	1.080	1.038	1.172	1.190	1.287	1.127	8.12
26)		Anthracene	0.935	0.972	0.969	0.959	1.076	1.120	1.222	1.036	10.28
27)	SURR	Fluoranthene-d10	1.073	1.137	1.063	1.028	1.121	1.154	1.447	1.146	12.22
28)		Fluoranthene	1.377	1.398	1.362	1.320	1.487	1.507	1.624	1.439	7.32
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.459	1.449	1.534	1.431	1.561	1.550	1.612	1.514	4.47
31)	S	Terphenyl-d14	0.800	0.794	0.868	0.796	0.878	0.892	0.943	0.853	6.77
32)		Benzo(a)anthra...	1.149	1.202	1.167	1.152	1.318	1.364	1.446	1.257	9.46
33)		Chrysene	1.630	1.573	1.583	1.491	1.554	1.510	1.551	1.556	2.98
34)		Bis(2-ethylhex...	0.509	0.504	0.466	0.481	0.488	0.537	0.498		5.00
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN062625.M

36)		Indeno(1,2,3-c...	1.487	1.515	1.577	1.620	1.786	1.853	1.967	1.686	10.88
37)		Benzo(b)fluora...	1.329	1.305	1.318	1.320	1.464	1.504	1.632	1.410	8.93
38)		Benzo(k)fluora...	1.408	1.389	1.462	1.430	1.552	1.613	1.697	1.507	7.73
39)	C	Benzo(a)pyrene	1.211	1.160	1.183	1.174	1.286	1.341	1.426	1.254	8.01
40)		Dibenzo(a,h)an...	1.050	1.138	1.211	1.229	1.394	1.485	1.561	1.296	14.53
41)		Benzo(g,h,i)pe...	1.425	1.473	1.477	1.462	1.617	1.658	1.725	1.548	7.51

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2375 SAS No.: Q2375 SDG No.: Q2375

Instrument ID: BNA_N Calibration Date/Time: 06/21/2025 01:17

Lab File ID: BN037365.D Init. Calib. Date(s): 06/20/2025 06/20/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 16:51 20:27

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.648	0.670		3.4	50.0
Fluoranthene-d10	1.148	1.189		3.6	50.0
2-Fluorophenol	0.799	0.740		-7.4	50.0
Phenol-d6	0.823	0.753		-8.5	50.0
Nitrobenzene-d5	0.323	0.318		-1.5	50.0
2-Fluorobiphenyl	1.757	1.777		1.1	50.0
2,4,6-Tribromophenol	0.235	0.218		-7.2	50.0
Terphenyl-d14	0.912	0.903		-1.0	50.0
1,4-Dioxane	0.407	0.399		-2.0	50.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2375 SAS No.: Q2375 SDG No.: Q2375

Instrument ID: BNA_N Calibration Date/Time: 06/26/2025 21:38

Lab File ID: BN037403.D Init. Calib. Date(s): 06/26/2025 06/26/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 10:41 14:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.619	0.590		-4.7	20.0
Fluoranthene-d10	1.146	1.145		-0.1	20.0
2-Fluorophenol	0.771	0.749		-2.9	20.0
Phenol-d6	0.799	0.782		-2.1	20.0
Nitrobenzene-d5	0.321	0.301		-6.2	20.0
2-Fluorobiphenyl	1.727	1.728		0.1	20.0
2,4,6-Tribromophenol	0.235	0.289		23.0	20.0
Terphenyl-d14	0.853	0.867		1.6	20.0
1,4-Dioxane	0.379	0.373		-1.6	20.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2375 SAS No.: Q2375 SDG No.: Q2375

Instrument ID: BNA_N Calibration Date/Time: 06/27/2025 04:54

Lab File ID: BN037415.D Init. Calib. Date(s): 06/26/2025 06/26/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 10:41 14:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.619	0.582		-6.0	50.0
Fluoranthene-d10	1.146	1.097		-4.3	50.0
2-Fluorophenol	0.771	0.782		1.4	50.0
Phenol-d6	0.799	0.787		-1.5	50.0
Nitrobenzene-d5	0.321	0.289		-10.0	50.0
2-Fluorobiphenyl	1.727	1.699		-1.6	50.0
2,4,6-Tribromophenol	0.235	0.235		0.0	50.0
Terphenyl-d14	0.853	0.849		-0.5	50.0
1,4-Dioxane	0.379	0.394		4.0	50.0

All other compounds must meet a minimum RRF of 0.010.

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LAB CHRONICLE

OrderID:	Q2375	**OrderDate:**	6/19/2025 3:57:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	D51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2375-01	**RW8-SP100-20250619**	**Water**			**06/19/25**			**06/19/25**
			Metals Group4	6010D		06/23/25	06/24/25	
Q2375-02	**RW8-SP303-20250619**	**Water**			**06/19/25**			**06/19/25**
			Metals Group4	6010D		06/23/25	06/24/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2375 **Order ID:** Q2375

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW8-SP100-20250619									
Q2375-01	RW8-SP100-20250619	Water	Iron	823		11.7	40.0	50.0	ug/L
Client ID : RW8-SP303-20250619									
Q2375-02	RW8-SP303-20250619	Water	Iron	76.8		11.7	40.0	50.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/19/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/19/25
Client Sample ID:	RW8-SP100-20250619	SDG No.:	Q2375
Lab Sample ID:	Q2375-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	823		1	11.7	40.0	50.0	ug/L	06/23/25 10:31	06/24/25 21:47	6010D	SW3010

Color Before:	light Brown	Clarity Before:	Cloudy	Texture:	
Color After:	ligh Btrown	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/19/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/19/25
Client Sample ID:	RW8-SP303-20250619	SDG No.:	Q2375
Lab Sample ID:	Q2375-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	76.8		1	11.7	40.0	50.0	ug/L	06/23/25 10:31	06/24/25 21:51	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

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

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

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	Iron	3840	4000	96	90 - 110	P	06/24/2025	18:43	LB136255

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

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	Iron	4870	5000	98	90 - 110	P	06/24/2025	19:34	LB136255
CCV02	Iron	4880	5000	98	90 - 110	P	06/24/2025	20:37	LB136255
CCV03	Iron	4950	5000	99	90 - 110	P	06/24/2025	21:29	LB136255
CCV04	Iron	4860	5000	97	90 - 110	P	06/24/2025	22:22	LB136255

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

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
LLCCV01	Iron	105	100	105	80 - 120	P	06/24/2025	22:47	LB136255

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

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	Iron	4750	5000	95	90 - 110	P	06/24/2025	23:46	LB136255

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

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	Iron	4100	4000	103	90 - 110	P	06/25/2025	13:08	LB136273

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

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	Iron	92.0	100	92	80 - 120	P	06/25/2025	13:20	LB136273

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

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	Iron	5120	5000	102	90 - 110	P	06/25/2025	16:04	LB136273
CCV02	Iron	5120	5000	102	90 - 110	P	06/25/2025	16:57	LB136273
CCV03	Iron	5130	5000	103	90 - 110	P	06/25/2025	18:00	LB136273
CCV04	Iron	5150	5000	103	90 - 110	P	06/25/2025	18:55	LB136273
CCV05	Iron	5120	5000	102	90 - 110	P	06/25/2025	19:52	LB136273
CCV06	Iron	5040	5000	101	90 - 110	P	06/25/2025	20:46	LB136273
CCV07	Iron	5050	5000	101	90 - 110	P	06/25/2025	21:12	LB136273

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Iron	102	100	102	65 - 135	P	06/24/2025	19:12	LB136255
CRI01	Iron	107	100	107	65 - 135	P	06/25/2025	15:24	LB136273

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Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	23.4	+/-50	U	80.0	100	P	06/24/2025	19:08	LB136255

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Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Iron	23.4	+/-50	U	80.0	100	P	06/24/2025	19:39	LB136255
CCB02	Iron	23.4	+/-50	U	80.0	100	P	06/24/2025	20:41	LB136255
CCB03	Iron	23.4	+/-50	U	80.0	100	P	06/24/2025	21:33	LB136255
CCB04	Iron	23.4	+/-50	U	80.0	100	P	06/24/2025	23:01	LB136255
CCB05	Iron	23.4	+/-50	U	80.0	100	P	06/24/2025	23:50	LB136255

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	23.4	+/-50	U	80.0	100	P	06/25/2025	14:53	LB136273

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Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Iron	23.4	+/-50	U	80.0	100	P	06/25/2025	16:09	LB136273
CCB02	Iron	23.4	+/-50	U	80.0	100	P	06/25/2025	17:09	LB136273
CCB03	Iron	23.4	+/-50	U	80.0	100	P	06/25/2025	18:07	LB136273
CCB04	Iron	23.4	+/-50	U	80.0	100	P	06/25/2025	18:59	LB136273
CCB05	Iron	23.4	+/-50	U	80.0	100	P	06/25/2025	19:57	LB136273
CCB06	Iron	33.2	+/-50	J	80.0	100	P	06/25/2025	20:50	LB136273
CCB07	Iron	23.4	+/-50	U	80.0	100	P	06/25/2025	21:16	LB136273

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Instrument: P5

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168583BL		**WATER**		**Batch Number:**		**PB168583**		**Prep Date:**	**06/23/2025**	
	Iron	11.7	<25	U	40.0	50.0	P	06/24/2025	19:52	LB136255

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Fax : 908 789 8922

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

ICS Source: EPA **Instrument ID:** P5

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	Iron	100000	100000	100	85600	116500	06/24/2025	19:17	LB136255
ICSAB01	Iron	99000	99000	100	84400	114500	06/24/2025	19:21	LB136255
ICSA01	Iron	104000	100000	104	85600	116500	06/25/2025	15:29	LB136273
ICSAB01	Iron	101000	99000	102	84400	114500	06/25/2025	15:51	LB136273

METAL QC DATA

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Fax : 908 789 8922

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q2375

contract: TETR06 **lab code:** CHEM **case no.:** Q2375 **sas no.:** Q2375

matrix: Water **sample id:** Q2385-01 **client id:** A5311MS

Percent Solids for Sample: NA **Spiked ID:** Q2385-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	87 - 115	1910		286		1500	108		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q2375

contract: TETR06 **lab code:** CHEM **case no.:** Q2375 **sas no.:** Q2375

matrix: Water **sample id:** Q2385-01 **client id:** A5311MSD

Percent Solids for Sample: NA **Spiked ID:** Q2385-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	87 - 115	1880		286		1500	106		P

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Metals
- 5b -

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

Matrix: Water **Sample ID:** Q2385-01 **Client ID:** A5311DUP

Percent Solids for Sample: NA **Duplicate ID** Q2385-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	286		289		1		P

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

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Metals

- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

Matrix: Water **Sample ID:** Q2385-01MS **Client ID:** A5311MSD

Percent Solids for Sample: NA **Duplicate ID** Q2385-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1910		1880		2		P

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

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168583BS							
Iron	ug/L	1500	1570		105	87 - 115	P

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

A5311L

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

Lab Code: CHEM **Lb No.:** lb136273 **Lab Sample ID :** Q2385-01L **SDG No.:** Q2375

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Iron	286		292		2		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

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
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

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
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

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
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

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
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2375 **SAS No.:** Q2375

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
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

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

Case No.: Q2375 **SAS No.:** Q2375

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168583**						
PB168583BL	PB168583BL	MB	WATER	06/23/2025	50.0	25.0	
PB168583BS	PB168583BS	LCS	WATER	06/23/2025	50.0	25.0	
Q2375-01	RW8-SP100-20250619	SAM	WATER	06/23/2025	50.0	25.0	
Q2375-02	RW8-SP303-20250619	SAM	WATER	06/23/2025	50.0	25.0	
Q2385-01DUP	A5311DUP	DUP	WATER	06/23/2025	50.0	25.0	
Q2385-01MS	A5311MS	MS	WATER	06/23/2025	50.0	25.0	
Q2385-01MSD	A5311MSD	MSD	WATER	06/23/2025	50.0	25.0	

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metals
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ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** Q2375 **Sas no.:** Q2375 **Sdg no.:** Q2375

Instrument id number: **Method:** **Run number:** LB136255

Start date: 06/24/2025 **End date:** 06/24/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1755	Fe
S1	S1	1	1800	Fe
S2	S2	1	1804	Fe
S3	S3	1	1829	Fe
S4	S4	1	1834	Fe
S5	S5	1	1838	Fe
ICV01	ICV01	1	1843	Fe
ICB01	ICB01	1	1908	Fe
CRI01	CRI01	1	1912	Fe
ICSA01	ICSA01	1	1917	Fe
ICSAB01	ICSAB01	1	1921	Fe
CCV01	CCV01	1	1934	Fe
CCB01	CCB01	1	1939	Fe
PB168583BL	PB168583BL	1	1952	Fe
PB168583BS	PB168583BS	1	1956	Fe
CCV02	CCV02	1	2037	Fe
CCB02	CCB02	1	2041	Fe
CCV03	CCV03	1	2129	Fe
CCB03	CCB03	1	2133	Fe
Q2375-01	RW8-SP100-20250619	1	2147	Fe
Q2375-02	RW8-SP303-20250619	1	2151	Fe
CCV04	CCV04	1	2222	Fe
LLCCV01	LLCCV01	1	2247	Fe
CCB04	CCB04	1	2301	Fe
CCV05	CCV05	1	2346	Fe
CCB05	CCB05	1	2350	Fe

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metals
- 14 -
ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** Q2375 **Sas no.:** Q2375 **Sdg no.:** Q2375

Instrument id number: **Method:** **Run number:** LB136273

Start date: 06/25/2025 **End date:** 06/25/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1223	Fe
S1	S1	1	1227	Fe
S2	S2	1	1232	Fe
S3	S3	1	1236	Fe
S4	S4	1	1240	Fe
S5	S5	1	1244	Fe
ICV01	ICV01	1	1308	Fe
LLICV01	LLICV01	1	1320	Fe
ICB01	ICB01	1	1453	Fe
CRI01	CRI01	1	1524	Fe
ICSA01	ICSA01	1	1529	Fe
ICSAB01	ICSAB01	1	1551	Fe
CCV01	CCV01	1	1604	Fe
CCB01	CCB01	1	1609	Fe
Q2385-01DUP	A5311DUP	1	1617	Fe
Q2385-01L	A5311L	5	1622	Fe
Q2385-01MS	A5311MS	1	1626	Fe
Q2385-01MSD	A5311MSD	1	1631	Fe
CCV02	CCV02	1	1657	Fe
CCB02	CCB02	1	1709	Fe
CCV03	CCV03	1	1800	Fe
CCB03	CCB03	1	1807	Fe
CCV04	CCV04	1	1855	Fe
CCB04	CCB04	1	1859	Fe
CCV05	CCV05	1	1952	Fe
CCB05	CCB05	1	1957	Fe
CCV06	CCV06	1	2046	Fe
CCB06	CCB06	1	2050	Fe
CCV07	CCV07	1	2112	Fe
CCB07	CCB07	1	2116	Fe

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LAB CHRONICLE

OrderID:	Q2375	**OrderDate:**	6/19/2025 3:57:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	D51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2375-01	**RW8-SP100-20250619**	**WATER**			**06/19/25 13:05**			**06/19/25**
			TDS	SM2540 C			06/23/25 12:30	
			TSS	SM2540 D			06/24/25 09:30	
Q2375-02	**RW8-SP303-20250619**	**WATER**			**06/19/25 13:13**			**06/19/25**
			TDS	SM2540 C			06/23/25 12:30	
			TSS	SM2540 D			06/24/25 09:30	

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/19/25 13:05
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/19/25
Client Sample ID:	RW8-SP100-20250619	SDG No.:	Q2375
Lab Sample ID:	Q2375-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TDS	5.00	J	1	1.00	10.0	10.0	mg/L		06/23/25 12:30	SM 2540 C-20
TSS	1.20	J	1	1.00	4.00	4.00	mg/L		06/24/25 09:30	SM 2540 D-20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/19/25 13:13
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/19/25
Client Sample ID:	RW8-SP303-20250619	SDG No.:	Q2375
Lab Sample ID:	Q2375-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TDS	6.00	J	1	1.00	10.0	10.0	mg/L		06/23/25 12:30	SM 2540 C-20
TSS	1.50	J	1	1.00	4.00	4.00	mg/L		06/24/25 09:30	SM 2540 D-20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

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

QC RESULT SUMMARY

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Preparation Blank Summary

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2375

Project: NWIRP Bethpage 112G08005-WE13

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB136237BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	06/23/2025
Sample ID: LB136238BL							
TSS	mg/L	1	2.0000	J	1	4	06/24/2025

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Duplicate Sample Summary

Client: Tetra Tech NUS, Inc.
SDG No.: Q2375
Project: NWIRP Bethpage 112G08005-WE13
Sample ID: Q2375-02
Client ID: RW8-SP303-20250619DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TDS	mg/L	+/-5	6.00	J	6.00	J	1	0		06/23/2025

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Duplicate Sample Summary

Client: Tetra Tech NUS, Inc.
SDG No.: Q2375
Project: NWIRP Bethpage 112G08005-WE13
Sample ID: Q2385-01
Client ID: A5311DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TSS	mg/L	+/-5	1.90	J	1.90	J	1	0		06/24/2025

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Laboratory Control Sample Summary

Client:	Tetra Tech NUS, Inc.	**SDG No.:**	Q2375
Project:	NWIRP Bethpage 112G08005-WE13	**Run No.:**	LB136237

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB136237BS								
TDS	mg/L	100	95.0		95	1	90-110	06/23/2025

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Laboratory Control Sample Summary

Client:	Tetra Tech NUS, Inc.	**SDG No.:**	Q2375
Project:	NWIRP Bethpage 112G08005-WE13	**Run No.:**	LB136238

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB136238BS								
TSS	mg/L	550	534		97	1	90-110	06/24/2025

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: Q2375

COC Number:

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: RW8
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie,wu@tetratech.com
PHONE: 757-466-4901 FAX: 757-461-4148

BILLING INFORMATION

BILL TO: 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

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

ANALYSIS

	1,4-Dioxane SW846 8270 SIM	Iron, Total	TSS	TDS					
	1	2	3	4	5	6	7	8	9

PRESERVATIVES

		B							
	1	2	3	4	5	6	7	8	9

COMMENTS

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

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	COMMENTS
1.	RW8-SP100-20250619	GW		x	6/19/25	13:05	4	pH 1.3 # 80A0441
2.	RW8-SP303-20250619	GW		x	6/19/25	13:13	4	pH 1.3 # 80A0441
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								

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

	DATE/TIME		
1. RELINQUISHED BY SAMPLER	6/19/25 1570	1. RECEIVED BY	1553 6-19-25
2. RELINQUISHED BY	DATE/TIME	2. RECEIVED BY	
3. RELINQUISHED BY	DATE/TIME 183 6-19-25	3. RECEIVED FOR LAB BY	

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.2°
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?:
Comments:

Page of

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

Shipment Complete ☐ YES ☐ NO

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

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

Laboratory Certification

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