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

# 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**

Table Of Contents for Q1069

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Fax : 908 789 8922



# Cover Page

**Order ID :** Q1069

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

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

| Lab Sample Number | Client Sample Number |
|---|---|
| Q1069-01 | RW7B-CARBON-20250109 |
| Q1069-02 | 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 : _____

Date: 1/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

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

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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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# 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 TCLPMetals 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. .

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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.

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Signature_____

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# 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 TCLPMetals 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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# 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).

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed

above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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# CASE NARRATIVE

**Tetra Tech NUS, Inc.**
**Project Name: NWIRP Bethpage 112G08005-WE13**
**Project Manager: Ernie Wu**
**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 TCLPMetals 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).

---

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# DATA REPORTING QUALIFIERS- INORGANIC

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

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

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## DATA REPORTING QUALIFIERS- ORGANIC

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

| | |
|---|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| **U** | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **J** | Indicates an estimated value**.** This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(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 #:** 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 Castody** | ✓ |
| **Were the samples received within hold time** | ✓ |
| **Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle** | ✓ |
| **ANALYTICAL:** | |
| **Was method requirement followed?** | ✓ |
| **Was client requirement followed?** | ✓ |
| **Does the case narrative summarize all QC failure?** | ✓ |
| **All runlogs and manual integration are reviewed for requirements** | ✓ |
| **All manual calculations and /or hand notations verified** | ✓ |

**QA Review Signature:** SOHIL JODHANI **Date:** 01/23/2025

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# 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 VOA | 8260D | | | 01/16/25 | |

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# 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 | | | | | |

# SAMPLE DATA

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# 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

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## Surrogate Summary

**SDG No.:** Q1069

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

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits 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 |

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# 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 | Limits 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 |

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## 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 | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 | |

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## 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 | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

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# 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:

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# 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 |

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# 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 |

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## 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.

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## 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

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# 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

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# 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
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J = Estimated Value
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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: | 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

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# 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 | $\overline{RRF}$ | % 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.

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## 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.

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## 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.

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# 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** | | | **01/09/25** | | | **01/09/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 01/13/25 | 01/15/25 | |
| **Q1069-01RX** | **RW7B-CARBON-20250109RX** | **SOIL** | | | **01/09/25** | | | **01/09/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 01/15/25 | 01/15/25 | |

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# 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-20250109 | SOIL | Bis(2-ethylhexyl)phthalate | | 280.000 | J | 160 | 230 | 310 | ug/Kg |
| | | | **Total Svoc :** | | **280.00** | | | | | |
| Q1069-01 | RW7B-CARBON-20250109 | SOIL | 1,2-Ethanediol, diformate | * | 1,800.000 | J | 0 | | 0 | ug/Kg |
| Q1069-01 | RW7B-CARBON-20250109 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 230.000 | AB | 0 | | 0 | ug/Kg |
| Q1069-01 | RW7B-CARBON-20250109 | SOIL | Benzophenone | * | 290.000 | J | 0 | | 0 | ug/Kg |
| Q1069-01 | RW7B-CARBON-20250109 | SOIL | Ethane, 1,1,2-trichloro- | * | 2,000.000 | J | 0 | | 0 | ug/Kg |
| Q1069-01 | RW7B-CARBON-20250109 | SOIL | Hexasiloxane, 1,1,3,3,5,5,7,7,9,9, | * | 320.000 | J | 0 | | 0 | ug/Kg |
| Q1069-01 | RW7B-CARBON-20250109 | SOIL | n-Hexadecanoic acid | * | 260.000 | J | 0 | | 0 | ug/Kg |
| Q1069-01 | RW7B-CARBON-20250109 | SOIL | Trichloroethylene | * | 14,000.000 | J | 0 | | 0 | ug/Kg |
| Q1069-01 | RW7B-CARBON-20250109 | 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-20250109 | SOIL | Bis(2-ethylhexyl)phthalate | | 560.000 | | 160 | 230 | 310 | ug/Kg |
| Q1069-01RX | RW7B-CARBON-20250109 | SOIL | Di-n-octyl phthalate | | 210.000 | J | 200 | 480 | 590 | ug/Kg |
| | | | **Total Svoc :** | | **770.00** | | | | | |
| | | | **Total Concentration:** | | **770.00** | | | | | |

# SAMPLE DATA

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Fax : 908 789 8922



# 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 |

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# 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 |

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Fax : 908 789 8922



# 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 |

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Fax : 908 789 8922



# 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

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Fax : 908 789 8922



# 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 |

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# 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 |

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# 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

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# 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 | Limits (%) 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 |

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# 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 | Limits (%) 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 |

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## 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 | Limits 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 | |

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## 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 | Limits 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 | |

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## 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 | Limits 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 |

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## 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 | Limits Low | Limits High | Limits 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 |

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# 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 Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | |

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# 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 Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | |

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# 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 Qual | Limits Low | Limits 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 | |

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# 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 Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | |

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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:

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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:

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



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 |

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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 |

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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.

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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

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# 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 |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | NWIRP Bethpage 112G08005-WE13 | Date Received: | |
| Client Sample ID: | 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 |

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# 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 |

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# 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) |
|---|---|---|---|---|---|---|---|

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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Fax : 908 789 8922



# 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 |

Alliance TECHNICAL GROUP
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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | NWIRP Bethpage 112G08005-WE13 | Date Received: | |
| Client Sample ID: | 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 |

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# 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 |

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# 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) |
|---|---|---|---|---|---|---|---|

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: | 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 |

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# 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 |

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



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | NWIRP Bethpage 112G08005-WE13 | Date Received: | |
| Client Sample ID: | 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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | NWIRP Bethpage 112G08005-WE13 | Date Received: | |
| Client Sample ID: | 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 |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | NWIRP Bethpage 112G08005-WE13 | Date Received: | |
| Client Sample ID: | 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 |

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# 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

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# 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 |

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# 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 |

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



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/10/25 |
| 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

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



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/10/25 |
| 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 |

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Fax : 908 789 8922



# 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 |

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# 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
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

# CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF011025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jan 10 22:54:19 2025
Response Via : Initial Calibration

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

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

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

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

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

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

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: 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 | |

Form VII SV-1

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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.

Form VII SV-1

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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 |

Form VII SV-1

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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.

Form VII SV-1

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# 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** | | | **01/09/25** | | | **01/09/25** |
| | | | PCB | 8082A | | 01/13/25 | 01/14/25 | |

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# 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 :**

**Total Concentration:** **0.000**

# SAMPLE DATA

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# 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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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## 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 | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PP068914.D | PIBLK-PP068914.D | Tetrachloro-m-xylene | 1 | 20 | 21.4 | 107 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 23.6 | 118 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.8 | 109 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 22.9 | 115 | | 60 | 140 |
| I.BLK-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 |

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## 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 | Limits Low | Limits High | Limits 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 | |

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## 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 | Limits Low | Limits High | Limits 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 |

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## 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 Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB166030BS | AR1016 | 166.6 | 149 | ug/kg | 89 | | | | 47 | 134 | |
| | AR1260 | 166.6 | 138 | ug/kg | 83 | | | | 53 | 140 | |

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4C

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

Alliance TECHNICAL GROUP
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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-MR1 ID: 0.32 (mm)

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

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

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

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**RETENTION TIMES OF INITIAL CALIBRATION**

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

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** TETR06

**Lab Code:** CHEM **Case No.:** 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 | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.09 | 5.09 | 5.09 | 5.09 | 5.09 | 5.09 | 4.99 | 5.19 |
| Aroclor-1016-2 | (2) | 5.11 | 5.10 | 5.10 | 5.10 | 5.11 | 5.10 | 5.00 | 5.20 |
| Aroclor-1016-3 | (3) | 5.29 | 5.28 | 5.28 | 5.28 | 5.28 | 5.28 | 5.18 | 5.38 |
| Aroclor-1016-4 | (4) | 5.32 | 5.32 | 5.32 | 5.32 | 5.32 | 5.32 | 5.22 | 5.42 |
| Aroclor-1016-5 | (5) | 5.54 | 5.54 | 5.54 | 5.54 | 5.54 | 5.54 | 5.44 | 5.64 |
| Aroclor-1260-1 | (1) | 6.58 | 6.58 | 6.58 | 6.58 | 6.59 | 6.58 | 6.48 | 6.68 |
| Aroclor-1260-2 | (2) | 6.77 | 6.77 | 6.77 | 6.77 | 6.77 | 6.77 | 6.67 | 6.87 |
| Aroclor-1260-3 | (3) | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 | 6.83 | 7.03 |
| Aroclor-1260-4 | (4) | 7.40 | 7.40 | 7.40 | 7.40 | 7.40 | 7.40 | 7.30 | 7.50 |
| Aroclor-1260-5 | (5) | 7.64 | 7.64 | 7.64 | 7.64 | 7.64 | 7.64 | 7.54 | 7.74 |
| Decachlorobiphenyl | | 9.11 | 9.11 | 9.11 | 9.11 | 9.11 | 9.11 | 9.01 | 9.21 |
| Tetrachloro-m-xylene | | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.88 | 4.08 |
| Aroclor-1242-1 | (1) | 5.09 | 5.08 | 5.08 | 5.09 | 5.09 | 5.09 | 4.99 | 5.19 |
| Aroclor-1242-2 | (2) | 5.11 | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.00 | 5.20 |
| Aroclor-1242-3 | (3) | 5.29 | 5.28 | 5.28 | 5.28 | 5.28 | 5.28 | 5.18 | 5.38 |
| Aroclor-1242-4 | (4) | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.27 | 5.47 |
| Aroclor-1242-5 | (5) | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 | 5.80 | 6.00 |
| Decachlorobiphenyl | | 9.11 | 9.11 | 9.11 | 9.11 | 9.11 | 9.11 | 9.01 | 9.21 |
| Tetrachloro-m-xylene | | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.88 | 4.08 |
| Aroclor-1248-1 | (1) | 5.09 | 5.08 | 5.09 | 5.09 | 5.09 | 5.09 | 4.99 | 5.19 |
| Aroclor-1248-2 | (2) | 5.33 | 5.32 | 5.32 | 5.33 | 5.32 | 5.32 | 5.22 | 5.42 |
| Aroclor-1248-3 | (3) | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.27 | 5.47 |
| Aroclor-1248-4 | (4) | 5.54 | 5.54 | 5.54 | 5.54 | 5.54 | 5.54 | 5.44 | 5.64 |
| Aroclor-1248-5 | (5) | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.84 | 6.04 |
| Decachlorobiphenyl | | 9.11 | 9.11 | 9.11 | 9.11 | 9.11 | 9.11 | 9.01 | 9.21 |
| Tetrachloro-m-xylene | | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.88 | 4.08 |
| Aroclor-1254-1 | (1) | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 | 5.80 | 6.00 |
| Aroclor-1254-2 | (2) | 6.05 | 6.05 | 6.05 | 6.05 | 6.05 | 6.05 | 5.95 | 6.15 |
| Aroclor-1254-3 | (3) | 6.45 | 6.45 | 6.45 | 6.45 | 6.45 | 6.45 | 6.35 | 6.55 |
| Aroclor-1254-4 | (4) | 6.68 | 6.68 | 6.68 | 6.68 | 6.68 | 6.68 | 6.58 | 6.78 |
| Aroclor-1254-5 | (5) | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.00 | 7.20 |
| Decachlorobiphenyl | | 9.11 | 9.11 | 9.11 | 9.11 | 9.11 | 9.11 | 9.01 | 9.21 |
| Tetrachloro-m-xylene | | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.88 | 4.08 |
| Aroclor-1268-1 | (1) | 7.93 | 7.93 | 7.93 | 7.93 | 7.93 | 7.93 | 7.83 | 8.03 |
| Aroclor-1268-2 | (2) | 7.99 | 7.99 | 7.99 | 7.99 | 7.99 | 7.99 | 7.89 | 8.09 |
| Aroclor-1268-3 | (3) | 8.21 | 8.21 | 8.21 | 8.21 | 8.21 | 8.21 | 8.11 | 8.31 |
| Aroclor-1268-4 | (4) | 8.51 | 8.51 | 8.51 | 8.51 | 8.51 | 8.51 | 8.41 | 8.61 |
| Aroclor-1268-5 | (5) | 8.83 | 8.83 | 8.83 | 8.83 | 8.83 | 8.83 | 8.73 | 8.93 |

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**RETENTION TIMES OF INITIAL CALIBRATION**

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

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** TETR06

**Lab Code:** CHEM **Case No.:** 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 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

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

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** TETR06

**Lab Code:** CHEM **Case No.:** 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 =** PP068915.D **CF 750 =** PP068916.D

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

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

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

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

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** TETR06

**Lab Code:** CHEM **Case No.:** 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 FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Aroclor-1221 | 500 | 1 | 4.87 | 4.77 | 4.97 | 17785200 |
| | | 2 | 4.96 | 4.86 | 5.06 | 12871900 |
| | | 3 | 5.04 | 4.94 | 5.14 | 38767800 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 5.04 | 4.94 | 5.14 | 29682400 |
| | | 2 | 5.57 | 5.47 | 5.67 | 16809200 |
| | | 3 | 5.86 | 5.76 | 5.96 | 31337200 |
| | | 4 | 6.02 | 5.92 | 6.12 | 15643200 |
| | | 5 | 6.11 | 6.01 | 6.21 | 12044900 |
| Aroclor-1262 | 500 | 1 | 8.28 | 8.18 | 8.38 | 79133000 |
| | | 2 | 8.62 | 8.52 | 8.72 | 144417000 |
| | | 3 | 8.95 | 8.85 | 9.05 | 102560000 |
| | | 4 | 9.04 | 8.94 | 9.14 | 83101200 |
| | | 5 | 9.72 | 9.62 | 9.82 | 50821400 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** TETR06

**Lab Code:** CHEM **Case No.:** 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 FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Aroclor-1221 | 500 | 1 | 4.20 | 4.10 | 4.30 | 13491500 |
| | | 2 | 4.29 | 4.19 | 4.39 | 10378200 |
| | | 3 | 4.36 | 4.26 | 4.46 | 31049200 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 4.36 | 4.26 | 4.46 | 24630800 |
| | | 2 | 5.10 | 5.00 | 5.20 | 23918600 |
| | | 3 | 5.28 | 5.18 | 5.38 | 12560200 |
| | | 4 | 5.37 | 5.27 | 5.47 | 11992000 |
| | | 5 | 5.54 | 5.44 | 5.64 | 12836200 |
| Aroclor-1262 | 500 | 1 | 7.14 | 7.04 | 7.24 | 79852400 |
| | | 2 | 7.40 | 7.30 | 7.50 | 69928200 |
| | | 3 | 7.93 | 7.83 | 8.03 | 57593000 |
| | | 4 | 7.99 | 7.89 | 8.09 | 100831000 |
| | | 5 | 8.51 | 8.41 | 8.61 | 48819800 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** TETR06

**Lab Code:** CHEM **Case No.:** 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 FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.83 | 5.83 | 5.73 | 5.93 | 0.00 |
| Aroclor-1016-2 | (2) | 5.85 | 5.85 | 5.75 | 5.95 | 0.00 |
| Aroclor-1016-3 | (3) | 5.91 | 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 |

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

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** TETR06

**Lab Code:** CHEM **Case No.:** 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 | RT WINDOW 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 |

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## 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 | RT WINDOW 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 |

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

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** TETR06

**Lab Code:** CHEM **Case No.:** 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 FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.08 | 5.09 | 4.99 | 5.19 | 0.01 |
| Aroclor-1016-2 | (2) | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Aroclor-1016-3 | (3) | 5.28 | 5.28 | 5.18 | 5.38 | 0.00 |
| Aroclor-1016-4 | (4) | 5.32 | 5.32 | 5.22 | 5.42 | 0.00 |
| Aroclor-1016-5 | (5) | 5.54 | 5.54 | 5.44 | 5.64 | 0.00 |
| Aroclor-1260-1 | (1) | 6.58 | 6.58 | 6.48 | 6.68 | 0.00 |
| Aroclor-1260-2 | (2) | 6.77 | 6.77 | 6.67 | 6.87 | 0.00 |
| 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 |

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## 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 | RT WINDOW 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 |

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## 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 | RT WINDOW 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 |

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## 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 FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.83 | 5.83 | 5.73 | 5.93 | 0.00 |
| Aroclor-1016-2 | (2) | 5.85 | 5.85 | 5.75 | 5.95 | 0.00 |
| Aroclor-1016-3 | (3) | 5.92 | 5.92 | 5.82 | 6.02 | 0.01 |
| 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 |

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

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** TETR06

**Lab Code:** CHEM **Case No.:** 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 | RT WINDOW 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 |

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## 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 FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 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 |

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## 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 FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.83 | 5.83 | 5.73 | 5.93 | 0.00 |
| Aroclor-1016-2 | (2) | 5.85 | 5.85 | 5.75 | 5.95 | 0.00 |
| Aroclor-1016-3 | (3) | 5.92 | 5.92 | 5.82 | 6.02 | 0.01 |
| 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 |

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## 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 FROM | TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.08 | 5.09 | 4.99 | 5.19 | 0.01 |
| Aroclor-1016-2 | (2) | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Aroclor-1016-3 | (3) | 5.28 | 5.28 | 5.18 | 5.38 | 0.00 |
| Aroclor-1016-4 | (4) | 5.32 | 5.32 | 5.22 | 5.42 | 0.00 |
| Aroclor-1016-5 | (5) | 5.54 | 5.54 | 5.44 | 5.64 | 0.00 |
| Aroclor-1260-1 | (1) | 6.58 | 6.58 | 6.48 | 6.68 | 0.00 |
| Aroclor-1260-2 | (2) | 6.77 | 6.77 | 6.67 | 6.87 | 0.00 |
| 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 |

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## 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 | RT WINDOW 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 |

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## 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 | RT WINDOW 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 |

Alliance TECHNICAL GROUP
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# 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 # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 01/06/2025 | 19:41 | PP068914.D | 10.52 | 4.67 |
| AR1660ICC1000 | AR1660ICC1000 | 01/06/2025 | 19:57 | PP068915.D | 10.52 | 4.67 |
| AR1660ICC750 | AR1660ICC750 | 01/06/2025 | 20:13 | PP068916.D | 10.53 | 4.67 |
| AR1660ICC500 | AR1660ICC500 | 01/06/2025 | 20:30 | PP068917.D | 10.52 | 4.67 |
| AR1660ICC250 | AR1660ICC250 | 01/06/2025 | 20:46 | PP068918.D | 10.52 | 4.67 |
| AR1660ICC050 | AR1660ICC050 | 01/06/2025 | 21:02 | PP068919.D | 10.53 | 4.67 |
| AR1221ICC500 | AR1221ICC500 | 01/06/2025 | 21:19 | PP068920.D | 10.53 | 4.67 |
| AR1232ICC500 | AR1232ICC500 | 01/06/2025 | 21:35 | PP068921.D | 10.52 | 4.67 |
| AR1242ICC1000 | AR1242ICC1000 | 01/06/2025 | 21:51 | PP068922.D | 10.53 | 4.67 |
| AR1242ICC750 | AR1242ICC750 | 01/06/2025 | 22:07 | PP068923.D | 10.52 | 4.67 |
| AR1242ICC500 | AR1242ICC500 | 01/06/2025 | 22:24 | PP068924.D | 10.53 | 4.67 |
| AR1242ICC250 | AR1242ICC250 | 01/06/2025 | 22:40 | PP068925.D | 10.53 | 4.67 |
| AR1242ICC050 | AR1242ICC050 | 01/06/2025 | 22:56 | PP068926.D | 10.53 | 4.67 |
| AR1248ICC1000 | AR1248ICC1000 | 01/06/2025 | 23:12 | PP068927.D | 10.52 | 4.67 |
| AR1248ICC750 | AR1248ICC750 | 01/06/2025 | 23:29 | PP068928.D | 10.52 | 4.67 |
| AR1248ICC500 | AR1248ICC500 | 01/06/2025 | 23:45 | PP068929.D | 10.53 | 4.67 |
| AR1248ICC250 | AR1248ICC250 | 01/07/2025 | 00:01 | PP068930.D | 10.52 | 4.67 |
| AR1248ICC050 | AR1248ICC050 | 01/07/2025 | 00:17 | PP068931.D | 10.53 | 4.68 |
| AR1254ICC1000 | AR1254ICC1000 | 01/07/2025 | 00:34 | PP068932.D | 10.52 | 4.67 |
| AR1254ICC750 | AR1254ICC750 | 01/07/2025 | 00:50 | PP068933.D | 10.52 | 4.67 |
| AR1254ICC500 | AR1254ICC500 | 01/07/2025 | 01:06 | PP068934.D | 10.52 | 4.67 |
| AR1254ICC250 | AR1254ICC250 | 01/07/2025 | 01:22 | PP068935.D | 10.52 | 4.67 |
| AR1254ICC050 | AR1254ICC050 | 01/07/2025 | 01:39 | PP068936.D | 10.53 | 4.67 |
| AR1262ICC500 | AR1262ICC500 | 01/07/2025 | 01:55 | PP068937.D | 10.53 | 4.68 |
| AR1268ICC1000 | AR1268ICC1000 | 01/07/2025 | 02:11 | PP068938.D | 10.53 | 4.67 |
| AR1268ICC750 | AR1268ICC750 | 01/07/2025 | 02:27 | PP068939.D | 10.52 | 4.67 |
| AR1268ICC500 | AR1268ICC500 | 01/07/2025 | 02:44 | PP068940.D | 10.53 | 4.68 |
| AR1268ICC250 | AR1268ICC250 | 01/07/2025 | 03:00 | PP068941.D | 10.53 | 4.67 |
| AR1268ICC050 | AR1268ICC050 | 01/07/2025 | 03:16 | PP068942.D | 10.53 | 4.67 |
| AR1660CCC500 | AR1660CCC500 | 01/13/2025 | 08:43 | PP069070.D | 10.52 | 4.67 |
| I.BLK | I.BLK | 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 |
| I.BLK | I.BLK | 01/13/2025 | 15:43 | PP069088.D | 10.52 | 4.67 |
| AR1660CCC500 | AR1660CCC500 | 01/14/2025 | 08:37 | PP069104.D | 10.52 | 4.67 |
| I.BLK | I.BLK | 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 |
| I.BLK | I.BLK | 01/14/2025 | 15:00 | PP069121.D | 10.52 | 4.67 |

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# Analytical Sequence

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Fax : 908 789 8922



# 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 # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 01/06/2025 | 19:41 | PP068914.D | 9.11 | 3.98 |
| AR1660ICC1000 | AR1660ICC1000 | 01/06/2025 | 19:57 | PP068915.D | 9.11 | 3.98 |
| AR1660ICC750 | AR1660ICC750 | 01/06/2025 | 20:13 | PP068916.D | 9.11 | 3.98 |
| AR1660ICC500 | AR1660ICC500 | 01/06/2025 | 20:30 | PP068917.D | 9.11 | 3.98 |
| AR1660ICC250 | AR1660ICC250 | 01/06/2025 | 20:46 | PP068918.D | 9.11 | 3.98 |
| AR1660ICC050 | AR1660ICC050 | 01/06/2025 | 21:02 | PP068919.D | 9.11 | 3.98 |
| AR1221ICC500 | AR1221ICC500 | 01/06/2025 | 21:19 | PP068920.D | 9.11 | 3.98 |
| AR1232ICC500 | AR1232ICC500 | 01/06/2025 | 21:35 | PP068921.D | 9.11 | 3.98 |
| AR1242ICC1000 | AR1242ICC1000 | 01/06/2025 | 21:51 | PP068922.D | 9.11 | 3.98 |
| AR1242ICC750 | AR1242ICC750 | 01/06/2025 | 22:07 | PP068923.D | 9.11 | 3.98 |
| AR1242ICC500 | AR1242ICC500 | 01/06/2025 | 22:24 | PP068924.D | 9.11 | 3.98 |
| AR1242ICC250 | AR1242ICC250 | 01/06/2025 | 22:40 | PP068925.D | 9.11 | 3.98 |
| AR1242ICC050 | AR1242ICC050 | 01/06/2025 | 22:56 | PP068926.D | 9.11 | 3.98 |
| AR1248ICC1000 | AR1248ICC1000 | 01/06/2025 | 23:12 | PP068927.D | 9.11 | 3.98 |
| AR1248ICC750 | AR1248ICC750 | 01/06/2025 | 23:29 | PP068928.D | 9.11 | 3.98 |
| AR1248ICC500 | AR1248ICC500 | 01/06/2025 | 23:45 | PP068929.D | 9.11 | 3.98 |
| AR1248ICC250 | AR1248ICC250 | 01/07/2025 | 00:01 | PP068930.D | 9.11 | 3.98 |
| AR1248ICC050 | AR1248ICC050 | 01/07/2025 | 00:17 | PP068931.D | 9.11 | 3.98 |
| AR1254ICC1000 | AR1254ICC1000 | 01/07/2025 | 00:34 | PP068932.D | 9.11 | 3.98 |
| AR1254ICC750 | AR1254ICC750 | 01/07/2025 | 00:50 | PP068933.D | 9.11 | 3.98 |
| AR1254ICC500 | AR1254ICC500 | 01/07/2025 | 01:06 | PP068934.D | 9.11 | 3.98 |
| AR1254ICC250 | AR1254ICC250 | 01/07/2025 | 01:22 | PP068935.D | 9.11 | 3.98 |
| AR1254ICC050 | AR1254ICC050 | 01/07/2025 | 01:39 | PP068936.D | 9.11 | 3.98 |
| AR1262ICC500 | AR1262ICC500 | 01/07/2025 | 01:55 | PP068937.D | 9.11 | 3.98 |
| AR1268ICC1000 | AR1268ICC1000 | 01/07/2025 | 02:11 | PP068938.D | 9.11 | 3.98 |
| AR1268ICC750 | AR1268ICC750 | 01/07/2025 | 02:27 | PP068939.D | 9.11 | 3.99 |
| AR1268ICC500 | AR1268ICC500 | 01/07/2025 | 02:44 | PP068940.D | 9.11 | 3.98 |
| AR1268ICC250 | AR1268ICC250 | 01/07/2025 | 03:00 | PP068941.D | 9.11 | 3.99 |
| AR1268ICC050 | AR1268ICC050 | 01/07/2025 | 03:16 | PP068942.D | 9.11 | 3.99 |
| AR1660CCC500 | AR1660CCC500 | 01/13/2025 | 08:43 | PP069070.D | 9.10 | 3.98 |
| I.BLK | I.BLK | 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 |
| I.BLK | I.BLK | 01/13/2025 | 15:43 | PP069088.D | 9.11 | 3.98 |
| AR1660CCC500 | AR1660CCC500 | 01/14/2025 | 08:37 | PP069104.D | 9.10 | 3.98 |
| I.BLK | I.BLK | 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 |
| I.BLK | I.BLK | 01/14/2025 | 15:00 | PP069121.D | 9.10 | 3.98 |

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# Analytical Sequence

# 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: | 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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/06/25 |
| Project: | NWIRP Bethpage 112G08005-WE13 | Date Received: | 01/06/25 |
| Client Sample ID: | PIBLK-PP068914.D | SDG No.: | 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

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# 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
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N = Presumptive Evidence of a Compound
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() = Laboratory InHouse Limit

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# 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
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# 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
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# 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

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# 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

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# 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
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/10/25 |
| 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
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M = MS/MSD acceptance criteria did not meet requirements

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | 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 | |

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# 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

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# 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

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# 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 |

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# 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 |

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# 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 |

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# 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 |

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# 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 |

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# 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 |

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# Metals

## - 2b -
## 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 |

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# 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICB55** | Mercury | 0.20 | +/-0.20 | U | 0.16 | 0.20 | CV | 01/14/2025 | 14:02 | LB134281 |

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# 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 |

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# 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 |

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# 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| **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 |

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# 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| **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 |

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# 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 |

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# 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 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

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

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

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

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICSA01** | 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

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# 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:** Q1036-02 **client id:** NP-WS-002MS

**Percent Solids for Sample:** NA **Spiked ID:** Q1036-02MS **Percent Solids for Spike Sample:** NA

| 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 |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE 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-002MSD

**Percent Solids for Sample:** NA **Spiked ID:** Q1036-02MSD **Percent Solids for Spike Sample:** NA

| 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 |

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# 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 |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE 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:** ARS20-0006MSD

**Percent Solids for Sample:** NA **Spiked ID:** Q1076-02MSD **Percent Solids for Spike Sample:** NA

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

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# 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 |

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# 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 ±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.:** 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 ±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.:** 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 ±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.:** 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 ±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.:** 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 |

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## Metals



### 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 |

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# Metals

## -9 -

## 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) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| 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 |

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# 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 | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Mercury | 2.00 | U | 10.0 | U | | | CV |

# METAL PREPARATION & INSTRUMENT DATA

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# 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: 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 |

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# 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: 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 |

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# 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 |

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# 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: 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 |

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# 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

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

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

**Contract:** TETR06 **Lab Code:** CHEM **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 | |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

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

**Contract:** TETR06 **Lab Code:** CHEM **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:** | **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 | |

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**metals**
**- 14 -**
**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 |

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**metals**
**- 14 -**
**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 |

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# 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** | | | **01/09/25 14:00** | | | **01/09/25** |
| | | | Ignitability | 1030 | | | 01/13/25 15:25 | |
| | | | pH | 9045D | | | 01/13/25 09:20 | |

# SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922



# 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

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# 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 |

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# 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 |

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# 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:

| CLIENT INFORMATION | PROJECT INFORMATION | BILLING INFORMATION |
|---|---|---|
| COMPANY: Tetra Tech | PROJECT NAME: NWIRP Bethpage | BILL TO: SEE CONTRACT PO# |
| ADDRESS: 4433 Corporation Ln, Suite 300 | PROJECT #: 112G08005-WE13 LOCATION: Carbon IDW | ADDRESS: |
| CITY: Virginia Beach STATE: VA ZIP: 23462 | PROJECT MANAGER: Dave Brayack | CITY: STATE: ZIP: |
| ATTENTION: Ernie Wu | E-MAIL: david.brayack@tetratech.com | ATTENTION: PHONE: |
| PHONE: 757-466-4901 FAX: 757-461-4148 | PHONE: 757-466-4909 FAX: 757-461-4148 | |

**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
- ❑ USEPA CLP
- ❑ New York State ASP "B"
- ❑ New York State ASP "A"
- ❑ Other_____
- ❑ EDD Format_____

**ANALYSIS**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| TCL SVOC (total) | Flash point | TCLP VOC | TCLP Metals (RCRA 8) | PCB | pH | | | |

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # of Bottles | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | RW7B-Carbon-20250109 | Granular Activated Carbon | | X | 1/9/25 | 14:00 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | | | | <-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other |
| 2. | | | | | | | | | | | | | | | | | |
| 3. | | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

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

| RELINQUISHED BY SAMPLER | DATE/TIME | RECEIVED BY |
|---|---|---|
| 1. | 1/9/25 1530 | 1. 1-9-25 1530 |
| RELINQUISHED BY | DATE/TIME | RECEIVED BY |
| 2. | | 2. |
| RELINQUISHED BY | DATE/TIME | RECEIVED FOR LAB BY |
| 3. | 1-9-25 1615 | 3. |

**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

Page 1 of 1

**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

# 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 |