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

# ANALYTICAL RESULTS SUMMARY

METALS
SEMI-VOLATILE ORGANICS

**PROJECT NAME : CTO WE13**

**TETRA TECH NUS, INC.**

**661 Andersen Drive**

**Suite 200**

**Pittsburgh, PA - 15220-2745**

**Phone No: 412-921-7090**

**ORDER ID : P4868**

**ATTENTION : Ernie Wu**

**Laboratory Certification ID # 20012**

Table Of Contents for P4868

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# Cover Page

**Order ID :** P4868

**Project ID :** CTO WE13

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

| Lab Sample Number | Client Sample Number |
|---|---|
| P4868-01 | RW5-SP100-20241114 |
| P4868-02 | RW5-SP201-20241114 |
| P4868-03 | RW5-SP303-20241114 |

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: 11/27/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**Tetra Tech NUS, Inc.**
**Project Name: CTO WE13**
**Project Manager : Ernie Wu**
**Chemtech Project # P4868**
**Test Name: SVOC-TCL BNA -20**

**A. Number of Samples and Date of Receipt:**
3 Water samples were received on 11/14/2024.

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

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

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for RW5-SP303-20241114RE [2-Fluorobiphenyl - 120%], as per method one acid and one base surrogate allow to fail therefore no corrective action taken.

The Internal Standards Areas met the acceptable requirements except for RW5-SP303-20241114, RW5-SP303-20241114RE, sample was reanalyzed to confirm the failure and reported.

The Retention Times were acceptable for all samples.
The RPD met criteria .

The Blank Spike for {PB165039BS} with File ID: BF140490.D met requirements for all samples except for Hexachlorocyclopentadiene[160%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate for {PB165039BSD} with File ID: BF140491.D met requirements for all samples except for Hexachlorocyclopentadiene[160%] is failing high but no positive hit in associate sample therefore no corrective action taken.

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

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The Continuous Calibration File ID BF140488.D met the requirements except for Benzaldehyde is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

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

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

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

---

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

Signature_____

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# CASE NARRATIVE

**Tetra Tech NUS, Inc.**
**Project Name: CTO WE13**
**Project Manager : Ernie Wu**
**Chemtech Project # P4868**
**Test Name: SVOC-SIMGroup1**

**A. Number of Samples and Date of Receipt:**
3 Water samples were received on 11/14/2024.

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

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

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for
RW5-SP100-20241114 [Nitrobenzene-d5 - 46%, Terphenyl-d14 - 441%],
RW5-SP201-20241114 [Terphenyl-d14 - 3736%],
RW5-SP303-20241114 [2-Fluorobiphenyl - 38%, Terphenyl-d14 - 677%],
PB165012BL [2-Fluorobiphenyl - 42%,Terphenyl-d14 - 323%],
PB165012BS [2-Fluorobiphenyl - 22%, Terphenyl-d14 - 556%],
PB165012BSD [2-Fluorobiphenyl - 19% and Terphenyl-d14 - 567%], failing surrogates was not associated with client parameter list, therefore no corrective action taken.

The Internal Standards Areas met the acceptable requirements except for RW5-SP303-20241114, RW5-SP201-20241114, PB165012BS and PB165012BSD, failing Internal Standards were not associated with client parameter list, therefore no corrective action taken.

The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

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The Continuous Calibration File ID BN035219.D met the requirements except for 2-Fluorobiphenyl,Fluoranthene-d10,Nitrobenzene-d5 and Terphenyl-d14 which are not our target compound, therefore no corrective action taken.

The Continuous Calibration File ID BN035235.D met the requirements except for 2-Fluorobiphenyl and Terphenyl-d14 which are not our target compound, therefore no Corrective action taken.

The Tuning criteria met requirements.

Samples RW5-SP100-20241114 was diluted at 5X. This sample initially analyzed straight in sequence BN112024 but END CCAL is missing therefore based on that result lab analyzed this sample directly with 5X while Straight analysis given as screening data in Miscellaneous section.

**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.

---

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

Signature_____

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# CASE NARRATIVE

**Tetra Tech NUS, Inc.**
**Project Name: CTO WE13**
**Project Manager: Ernie Wu**
**Chemtech Project # P4868**
**Test Name: Metals ICP-TAL,Mercury**

**A. Number of Samples and Date of Receipt:**
3 Water samples were received on 11/14/2024.

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

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

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met criteria for all samples.

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

---

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

Signature_____

# 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 #:** P4868

| | 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:** 11/27/2024

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4868 | **OrderDate:** | 11/14/2024 3:41:00 PM |
| **Client:** | Tetra Tech NUS, Inc. | **Project:** | CTO WE13 |
| **Contact:** | Ernie Wu | **Location:** | L41 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4868-01** | **RW5-SP100-20241114** | **Water** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 11/15/24 | 11/21/24 | |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/20/24 | |
| **P4868-03** | **RW5-SP303-20241114** | **Water** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 11/15/24 | 11/21/24 | |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/20/24 | |
| **P4868-03RE** | **RW5-SP303-20241114RE** | **Water** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/20/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4868

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

| Sample ID | Client ID | | Parameter | | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|
| **Client ID : RW5-SP100-20241114** | | | | | | | | | | |
| P4868-01 | RW5-SP100-20241114 | WATER | 1,4-Dioxane | | 9.800 | | 1.3 | 4.1 | 5.1 | ug/L |
| | | | **Total Svoc :** | | | **9.80** | | | | |
| P4868-01 | RW5-SP100-20241114 | WATER | 2-Pentanone, 4-hydroxy-4-methyl | * | 6.100 | AB | 0 | | 0 | ug/L |
| P4868-01 | RW5-SP100-20241114 | WATER | 3-Penten-2-one, 4-methyl- | * | 8.000 | A | 0 | | 0 | ug/L |
| P4868-01 | RW5-SP100-20241114 | WATER | Butane, 2-methoxy-2-methyl- | * | 110.000 | J | 0 | | 0 | ug/L |
| P4868-01 | RW5-SP100-20241114 | WATER | Trichloroethylene | * | 180.000 | J | 0 | | 0 | ug/L |
| | | | **Total Tics :** | | | **304.10** | | | | |
| | | | **Total Concentration:** | | | **313.90** | | | | |
| **Client ID : RW5-SP303-20241114** | | | | | | | | | | |
| P4868-03 | RW5-SP303-20241114 | WATER | 2-Pentanone, 4-hydroxy-4-methyl | * | 3.300 | AB | 0 | | 0 | ug/L |
| P4868-03 | RW5-SP303-20241114 | WATER | 3-Penten-2-one, 4-methyl- | * | 30.100 | A | 0 | | 0 | ug/L |
| P4868-03 | RW5-SP303-20241114 | WATER | Butane, 2-methoxy-2-methyl- | * | 87.000 | J | 0 | | 0 | ug/L |
| P4868-03 | RW5-SP303-20241114 | WATER | Cyclotrisiloxane, hexamethyl- | * | 2.000 | J | 0 | | 0 | ug/L |
| | | | **Total Tics :** | | | **122.40** | | | | |
| | | | **Total Concentration:** | | | **122.40** | | | | |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP100-20241114 | SDG No.: | P4868 |
| Lab Sample ID: | P4868-01 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140493.D | 1 | 11/16/24 08:15 | 11/20/24 11:49 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 100-52-7 | Benzaldehyde | 8.20 | U | 4.10 | 8.20 | 10.2 | ug/L |
| 108-95-2 | Phenol | 4.10 | U | 0.95 | 4.10 | 5.10 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 4.10 | U | 1.20 | 4.10 | 5.10 | ug/L |
| 95-57-8 | 2-Chlorophenol | 4.10 | U | 0.72 | 4.10 | 5.10 | ug/L |
| 95-48-7 | 2-Methylphenol | 4.10 | U | 1.20 | 4.10 | 5.10 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 4.10 | U | 1.40 | 4.10 | 5.10 | ug/L |
| 98-86-2 | Acetophenone | 4.10 | U | 1.10 | 4.10 | 5.10 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 8.20 | U | 1.20 | 8.20 | 10.2 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 2.60 | U | 1.50 | 2.60 | 2.60 | ug/L |
| 67-72-1 | Hexachloroethane | 4.10 | U | 1.00 | 4.10 | 5.10 | ug/L |
| 98-95-3 | Nitrobenzene | 4.10 | U | 1.30 | 4.10 | 5.10 | ug/L |
| 78-59-1 | Isophorone | 4.10 | U | 1.20 | 4.10 | 5.10 | ug/L |
| 88-75-5 | 2-Nitrophenol | 4.10 | U | 2.00 | 4.10 | 5.10 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 4.10 | U | 1.50 | 4.10 | 5.10 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 4.10 | U | 1.00 | 4.10 | 5.10 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 4.10 | U | 0.90 | 4.10 | 5.10 | ug/L |
| 91-20-3 | Naphthalene | 4.10 | U | 1.00 | 4.10 | 5.10 | ug/L |
| 106-47-8 | 4-Chloroaniline | 4.10 | U | 1.30 | 4.10 | 5.10 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 4.10 | U | 1.30 | 4.10 | 5.10 | ug/L |
| 105-60-2 | Caprolactam | 8.20 | U | 1.70 | 8.20 | 10.2 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 4.10 | U | 0.86 | 4.10 | 5.10 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 4.10 | U | 1.20 | 4.10 | 5.10 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 8.20 | UQ | 5.10 | 8.20 | 10.2 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 4.10 | U | 0.91 | 4.10 | 5.10 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 4.10 | U | 1.00 | 4.10 | 5.10 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 4.10 | U | 0.93 | 4.10 | 5.10 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 4.10 | U | 0.99 | 4.10 | 5.10 | ug/L |
| 88-74-4 | 2-Nitroaniline | 4.10 | U | 1.40 | 4.10 | 5.10 | ug/L |
| 131-11-3 | Dimethylphthalate | 4.10 | U | 0.95 | 4.10 | 5.10 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP100-20241114 | SDG No.: | P4868 |
| Lab Sample ID: | P4868-01 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140493.D | 1 | 11/16/24 08:15 | 11/20/24 11:49 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 4.10 | U | 1.10 | 4.10 | 5.10 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 4.10 | U | 1.30 | 4.10 | 5.10 | ug/L |
| 99-09-2 | 3-Nitroaniline | 4.10 | U | 1.40 | 4.10 | 5.10 | ug/L |
| 83-32-9 | Acenaphthene | 4.10 | U | 0.83 | 4.10 | 5.10 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 8.20 | U | 6.60 | 8.20 | 10.2 | ug/L |
| 100-02-7 | 4-Nitrophenol | 8.20 | U | 2.00 | 8.20 | 10.2 | ug/L |
| 132-64-9 | Dibenzofuran | 4.10 | U | 0.95 | 4.10 | 5.10 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 4.10 | U | 1.60 | 4.10 | 5.10 | ug/L |
| 84-66-2 | Diethylphthalate | 4.10 | U | 1.10 | 4.10 | 5.10 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 4.10 | U | 1.00 | 4.10 | 5.10 | ug/L |
| 86-73-7 | Fluorene | 4.10 | U | 0.98 | 4.10 | 5.10 | ug/L |
| 100-01-6 | 4-Nitroaniline | 4.10 | U | 2.10 | 4.10 | 5.10 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 8.20 | U | 3.10 | 8.20 | 10.2 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 4.10 | U | 0.91 | 4.10 | 5.10 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 4.10 | U | 0.97 | 4.10 | 5.10 | ug/L |
| 118-74-1 | Hexachlorobenzene | 4.10 | U | 1.20 | 4.10 | 5.10 | ug/L |
| 1912-24-9 | Atrazine | 4.10 | U | 1.30 | 4.10 | 5.10 | ug/L |
| 87-86-5 | Pentachlorophenol | 8.20 | U | 1.90 | 8.20 | 10.2 | ug/L |
| 85-01-8 | Phenanthrene | 4.10 | U | 0.91 | 4.10 | 5.10 | ug/L |
| 120-12-7 | Anthracene | 4.10 | U | 1.10 | 4.10 | 5.10 | ug/L |
| 86-74-8 | Carbazole | 4.10 | U | 1.20 | 4.10 | 5.10 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 4.10 | U | 1.50 | 4.10 | 5.10 | ug/L |
| 206-44-0 | Fluoranthene | 4.10 | U | 1.30 | 4.10 | 5.10 | ug/L |
| 129-00-0 | Pyrene | 4.10 | U | 1.10 | 4.10 | 5.10 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 4.10 | U | 2.10 | 4.10 | 5.10 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 8.20 | U | 1.30 | 8.20 | 10.2 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 4.10 | U | 0.96 | 4.10 | 5.10 | ug/L |
| 218-01-9 | Chrysene | 4.10 | U | 0.88 | 4.10 | 5.10 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 4.10 | U | 1.90 | 4.10 | 5.10 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 8.20 | U | 2.60 | 8.20 | 10.2 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 4.10 | U | 1.20 | 4.10 | 5.10 | ug/L |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP100-20241114 | SDG No.: | P4868 |
| Lab Sample ID: | P4868-01 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140493.D | 1 | 11/16/24 08:15 | 11/20/24 11:49 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 4.10 | U | 1.20 | 4.10 | 5.10 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 4.10 | U | 1.70 | 4.10 | 5.10 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 4.10 | U | 1.00 | 4.10 | 5.10 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 4.10 | U | 1.20 | 4.10 | 5.10 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 4.10 | U | 1.20 | 4.10 | 5.10 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 4.10 | U | 1.10 | 4.10 | 5.10 | ug/L |
| 123-91-1 | 1,4-Dioxane | 9.80 | | 1.30 | 4.10 | 5.10 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 4.10 | U | 0.81 | 4.10 | 5.10 | ug/L |
| **SURROGATES** | | | | | | | |
| 367-12-4 | 2-Fluorophenol | 68.8 | | 19 - 119 | | 46% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 41.6 | | 10 - 130 | | 28% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 104 | | 44 - 120 | | 104% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 102 | | 44 - 119 | | 102% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 160 | | 43 - 140 | | 107% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 103 | | 50 - 134 | | 103% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 115000 | 6.875 | | | | |
| 1146-65-2 | Naphthalene-d8 | 439000 | 8.151 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 246000 | 9.91 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 461000 | 11.398 | | | | |
| 1719-03-5 | Chrysene-d12 | 282000 | 14.051 | | | | |
| 1520-96-3 | Perylene-d12 | 215000 | 15.556 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 110 | J | | | 2.14 | ug/L |
| 000079-01-6 | Trichloroethylene | 180 | J | | | 2.52 | ug/L |
| 000141-79-7 | 3-Penten-2-one, 4-methyl- | 8.00 | A | | | 4.47 | ug/L |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 6.10 | AB | | | 5.09 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP100-20241114 | SDG No.: | P4868 |
| Lab Sample ID: | P4868-01 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140493.D | 1 | 11/16/24 08:15 | 11/20/24 11:49 | PB165039 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP303-20241114 | SDG No.: | P4868 |
| Lab Sample ID: | P4868-03 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140494.D | 1 | 11/16/24 08:15 | 11/20/24 12:15 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 100-52-7 | Benzaldehyde | 8.00 | U | 4.00 | 8.00 | 10.0 | ug/L |
| 108-95-2 | Phenol | 4.00 | U | 0.93 | 4.00 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 4.00 | U | 0.71 | 4.00 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 4.00 | U | 1.40 | 4.00 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 8.00 | U | 1.20 | 8.00 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 2.50 | U | 1.50 | 2.50 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 4.00 | U | 2.00 | 4.00 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 4.00 | U | 0.88 | 4.00 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 8.00 | U | 1.70 | 8.00 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 4.00 | U | 0.84 | 4.00 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 8.00 | UQ | 5.00 | 8.00 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 4.00 | U | 0.89 | 4.00 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 4.00 | U | 0.91 | 4.00 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 4.00 | U | 0.97 | 4.00 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 4.00 | U | 1.40 | 4.00 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 4.00 | U | 0.93 | 4.00 | 5.00 | ug/L |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP303-20241114 | SDG No.: | P4868 |
| Lab Sample ID: | P4868-03 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140494.D | 1 | 11/16/24 08:15 | 11/20/24 12:15 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 4.00 | U | 1.40 | 4.00 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 4.00 | U | 0.81 | 4.00 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 8.00 | U | 6.40 | 8.00 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 8.00 | U | 2.00 | 8.00 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 4.00 | U | 0.93 | 4.00 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 4.00 | U | 0.98 | 4.00 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 4.00 | U | 0.96 | 4.00 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 4.00 | U | 2.00 | 4.00 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 8.00 | U | 3.10 | 8.00 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 4.00 | U | 0.89 | 4.00 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 4.00 | U | 0.95 | 4.00 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 8.00 | U | 1.90 | 8.00 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 4.00 | U | 0.89 | 4.00 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 4.00 | U | 2.10 | 4.00 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 8.00 | U | 1.30 | 8.00 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 4.00 | U | 0.94 | 4.00 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 4.00 | U | 0.86 | 4.00 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 4.00 | U | 1.90 | 4.00 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 8.00 | U | 2.50 | 8.00 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP303-20241114 | SDG No.: | P4868 |
| Lab Sample ID: | P4868-03 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140494.D | 1 | 11/16/24 08:15 | 11/20/24 12:15 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 4.00 | U | 1.70 | 4.00 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 4.00 | U | 0.79 | 4.00 | 5.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 367-12-4 | 2-Fluorophenol | 65.9 | | 19 - 119 | | 44% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 38.4 | | 10 - 130 | | 26% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 104 | | 44 - 120 | | 104% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 110 | | 44 - 119 | | 110% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 167 | | 43 - 140 | | 111% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 108 | | 50 - 134 | | 108% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 111000 | 6.875 | | | | |
| 1146-65-2 | Naphthalene-d8 | 422000 | 8.151 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 217000 | 9.904 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 429000 | 11.398 | | | | |
| 1719-03-5 | Chrysene-d12 | 253000 | 14.051 | | | | |
| 1520-96-3 | Perylene-d12 | 113000 | 15.563 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 87.0 | J | | | 2.13 | ug/L |
| 000141-79-7 | 3-Penten-2-one, 4-methyl- | 30.1 | A | | | 4.47 | ug/L |
| 000541-05-9 | Cyclotrisiloxane, hexamethyl- | 2.00 | J | | | 4.74 | ug/L |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 3.30 | AB | | | 5.09 | ug/L |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP303-20241114 | SDG No.: | P4868 |
| Lab Sample ID: | P4868-03 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140494.D | 1 | 11/16/24 08:15 | 11/20/24 12:15 | PB165039 |

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

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

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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP303-20241114RE | SDG No.: | P4868 |
| Lab Sample ID: | P4868-03RE | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140498.D | 1 | 11/16/24 08:15 | 11/20/24 14:01 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 100-52-7 | Benzaldehyde | 8.00 | U | 4.00 | 8.00 | 10.0 | ug/L |
| 108-95-2 | Phenol | 4.00 | U | 0.93 | 4.00 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 4.00 | U | 0.71 | 4.00 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 4.00 | U | 1.40 | 4.00 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 8.00 | U | 1.20 | 8.00 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 2.50 | U | 1.50 | 2.50 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 4.00 | U | 2.00 | 4.00 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 4.00 | U | 0.88 | 4.00 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 8.00 | U | 1.70 | 8.00 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 4.00 | U | 0.84 | 4.00 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 8.00 | UQ | 5.00 | 8.00 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 4.00 | U | 0.89 | 4.00 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 4.00 | U | 0.91 | 4.00 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 4.00 | U | 0.97 | 4.00 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 4.00 | U | 1.40 | 4.00 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 4.00 | U | 0.93 | 4.00 | 5.00 | ug/L |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP303-20241114RE | SDG No.: | P4868 |
| Lab Sample ID: | P4868-03RE | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140498.D | 1 | 11/16/24 08:15 | 11/20/24 14:01 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 4.00 | U | 1.40 | 4.00 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 4.00 | U | 0.81 | 4.00 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 8.00 | U | 6.40 | 8.00 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 8.00 | U | 2.00 | 8.00 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 4.00 | U | 0.93 | 4.00 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 4.00 | U | 0.98 | 4.00 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 4.00 | U | 0.96 | 4.00 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 4.00 | U | 2.00 | 4.00 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 8.00 | U | 3.10 | 8.00 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 4.00 | U | 0.89 | 4.00 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 4.00 | U | 0.95 | 4.00 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 8.00 | U | 1.90 | 8.00 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 4.00 | U | 0.89 | 4.00 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 4.00 | U | 2.10 | 4.00 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 8.00 | U | 1.30 | 8.00 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 4.00 | U | 0.94 | 4.00 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 4.00 | U | 0.86 | 4.00 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 4.00 | U | 1.90 | 4.00 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 8.00 | U | 2.50 | 8.00 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP303-20241114RE | SDG No.: | P4868 |
| Lab Sample ID: | P4868-03RE | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140498.D | 1 | 11/16/24 08:15 | 11/20/24 14:01 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 4.00 | U | 1.70 | 4.00 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 4.00 | U | 0.79 | 4.00 | 5.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 367-12-4 | 2-Fluorophenol | 65.8 | | 19 - 119 | | 44% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 36.9 | | 10 - 130 | | 25% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 106 | | 44 - 120 | | 106% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 120 | * | 44 - 119 | | 120% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 177 | | 43 - 140 | | 118% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 120 | | 50 - 134 | | 120% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 108000 | 6.869 | | | | |
| 1146-65-2 | Naphthalene-d8 | 402000 | 8.151 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 186000 | 9.904 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 384000 | 11.398 | | | | |
| 1719-03-5 | Chrysene-d12 | 211000 | 14.039 | | | | |
| 1520-96-3 | Perylene-d12 | 81300 | 15.533 | | | | |

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.:** P4868

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

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P4868-01 | RW5-SP100-20241114 | 2-Fluorophenol | 150 | 68.8 | 46 | | 19 | 119 |
| | | Phenol-d6 | 150 | 41.6 | 28 | | 10 | 130 |
| | | Nitrobenzene-d5 | 100 | 104 | 104 | | 44 | 120 |
| | | 2-Fluorobiphenyl | 100 | 102 | 102 | | 44 | 119 |
| | | 2,4,6-Tribromophenol | 150 | 160 | 107 | | 43 | 140 |
| | | Terphenyl-d14 | 100 | 103 | 103 | | 50 | 134 |
| P4868-03 | RW5-SP303-20241114 | 2-Fluorophenol | 150 | 65.9 | 44 | | 19 | 119 |
| | | Phenol-d6 | 150 | 38.4 | 26 | | 10 | 130 |
| | | Nitrobenzene-d5 | 100 | 104 | 104 | | 44 | 120 |
| | | 2-Fluorobiphenyl | 100 | 110 | 110 | | 44 | 119 |
| | | 2,4,6-Tribromophenol | 150 | 167 | 111 | | 43 | 140 |
| | | Terphenyl-d14 | 100 | 108 | 108 | | 50 | 134 |
| P4868-03RE | RW5-SP303-20241114RE | 2-Fluorophenol | 150 | 65.8 | 44 | | 19 | 119 |
| | | Phenol-d6 | 150 | 36.9 | 25 | | 10 | 130 |
| | | Nitrobenzene-d5 | 100 | 106 | 106 | | 44 | 120 |
| | | 2-Fluorobiphenyl | 100 | 120 | 120 | * | 44 | 119 |
| | | 2,4,6-Tribromophenol | 150 | 177 | 118 | | 43 | 140 |
| | | Terphenyl-d14 | 100 | 120 | 120 | | 50 | 134 |
| PB165039BL | PB165039BL | 2-Fluorophenol | 150 | 125 | 83 | | 19 | 119 |
| | | Phenol-d6 | 150 | 120 | 80 | | 10 | 130 |
| | | Nitrobenzene-d5 | 100 | 86.8 | 87 | | 44 | 120 |
| | | 2-Fluorobiphenyl | 100 | 90.2 | 90 | | 44 | 119 |
| | | 2,4,6-Tribromophenol | 150 | 128 | 85 | | 43 | 140 |
| | | Terphenyl-d14 | 100 | 87.1 | 87 | | 50 | 134 |
| PB165039BS | PB165039BS | 2-Fluorophenol | 150 | 121 | 81 | | 19 | 119 |
| | | Phenol-d6 | 150 | 117 | 78 | | 10 | 130 |
| | | Nitrobenzene-d5 | 100 | 83.1 | 83 | | 44 | 120 |
| | | 2-Fluorobiphenyl | 100 | 84.5 | 84 | | 44 | 119 |
| | | 2,4,6-Tribromophenol | 150 | 130 | 86 | | 43 | 140 |
| | | Terphenyl-d14 | 100 | 94.8 | 95 | | 50 | 134 |
| PB165039BSD | PB165039BSD | 2-Fluorophenol | 150 | 121 | 81 | | 19 | 119 |
| | | Phenol-d6 | 150 | 117 | 78 | | 10 | 130 |
| | | Nitrobenzene-d5 | 100 | 82.7 | 83 | | 44 | 120 |
| | | 2-Fluorobiphenyl | 100 | 85.6 | 86 | | 44 | 119 |
| | | 2,4,6-Tribromophenol | 150 | 131 | 87 | | 43 | 140 |
| | | Terphenyl-d14 | 100 | 93.3 | 93 | | 50 | 134 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4868

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

**Analytical Method:** 8270E **DataFile:** BF140490.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB165039BS | Benzaldehyde | 50 | 38.4 | ug/L | 77 | | | | 10 | 161 | |
| | Phenol | 50 | 43.2 | ug/L | 86 | | | | 10 | 132 | |
| | bis(2-Chloroethyl)ether | 50 | 43.6 | ug/L | 87 | | | | 43 | 118 | |
| | 2-Chlorophenol | 50 | 45.4 | ug/L | 91 | | | | 38 | 117 | |
| | 2-Methylphenol | 50 | 43.6 | ug/L | 87 | | | | 30 | 117 | |
| | 2,2-oxybis(1-Chloropropane) | 50 | 41.3 | ug/L | 83 | | | | 37 | 130 | |
| | Acetophenone | 50 | 42.4 | ug/L | 85 | | | | 46 | 118 | |
| | 3+4-Methylphenols | 50 | 43.8 | ug/L | 88 | | | | 29 | 110 | |
| | N-Nitroso-di-n-propylamine | 50 | 42.2 | ug/L | 84 | | | | 49 | 119 | |
| | Hexachloroethane | 50 | 42.7 | ug/L | 85 | | | | 21 | 115 | |
| | Nitrobenzene | 50 | 41.1 | ug/L | 82 | | | | 45 | 121 | |
| | Isophorone | 50 | 43.3 | ug/L | 87 | | | | 42 | 124 | |
| | 2-Nitrophenol | 50 | 44.7 | ug/L | 89 | | | | 47 | 123 | |
| | 2,4-Dimethylphenol | 50 | 54.0 | ug/L | 108 | | | | 31 | 124 | |
| | bis(2-Chloroethoxy)methane | 50 | 43.3 | ug/L | 87 | | | | 48 | 120 | |
| | 2,4-Dichlorophenol | 50 | 44.8 | ug/L | 90 | | | | 47 | 121 | |
| | Naphthalene | 50 | 42.9 | ug/L | 86 | | | | 40 | 121 | |
| | 4-Chloroaniline | 50 | 22.7 | ug/L | 45 | | | | 33 | 117 | |
| | Hexachlorobutadiene | 50 | 42.5 | ug/L | 85 | | | | 22 | 124 | |
| | Caprolactam | 50 | 44.1 | ug/L | 88 | | | | 10 | 161 | |
| | 4-Chloro-3-methylphenol | 50 | 44.8 | ug/L | 90 | | | | 52 | 119 | |
| | 2-Methylnaphthalene | 50 | 43.9 | ug/L | 88 | | | | 40 | 121 | |
| | Hexachlorocyclopentadiene | 100 | 160 | ug/L | 160 | | * | | 10 | 155 | |
| | 2,4,6-Trichlorophenol | 50 | 44.1 | ug/L | 88 | | | | 50 | 125 | |
| | 2,4,5-Trichlorophenol | 50 | 42.6 | ug/L | 85 | | | | 53 | 123 | |
| | 1,1-Biphenyl | 50 | 42.8 | ug/L | 86 | | | | 49 | 115 | |
| | 2-Chloronaphthalene | 50 | 41.9 | ug/L | 84 | | | | 40 | 116 | |
| | 2-Nitroaniline | 50 | 43.6 | ug/L | 87 | | | | 55 | 127 | |
| | Dimethylphthalate | 50 | 44.1 | ug/L | 88 | | | | 45 | 127 | |
| | Acenaphthylene | 50 | 46.2 | ug/L | 92 | | | | 41 | 130 | |
| | 2,6-Dinitrotoluene | 50 | 42.9 | ug/L | 86 | | | | 57 | 124 | |
| | 3-Nitroaniline | 50 | 28.7 | ug/L | 57 | | | | 41 | 128 | |
| | Acenaphthene | 50 | 49.2 | ug/L | 98 | | | | 47 | 122 | |
| | 2,4-Dinitrophenol | 100 | 89.3 | ug/L | 89 | | | | 23 | 143 | |
| | 4-Nitrophenol | 100 | 81.6 | ug/L | 82 | | | | 10 | 161 | |
| | Dibenzofuran | 50 | 44.2 | ug/L | 88 | | | | 53 | 118 | |
| | 2,4-Dinitrotoluene | 50 | 43.1 | ug/L | 86 | | | | 57 | 128 | |
| | Diethylphthalate | 50 | 43.1 | ug/L | 86 | | | | 56 | 125 | |
| | 4-Chlorophenyl-phenylether | 50 | 43.3 | ug/L | 87 | | | | 53 | 121 | |
| | Fluorene | 50 | 43.3 | ug/L | 87 | | | | 52 | 124 | |
| | 4-Nitroaniline | 50 | 41.9 | ug/L | 84 | | | | 35 | 120 | |
| | 4,6-Dinitro-2-methylphenol | 50 | 47.3 | ug/L | 95 | | | | 44 | 137 | |
| | N-Nitrosodiphenylamine | 50 | 44.9 | ug/L | 90 | | | | 51 | 123 | |
| | 4-Bromophenyl-phenylether | 50 | 44.1 | ug/L | 88 | | | | 55 | 124 | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4868

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

**Analytical Method:** 8270E **DataFile:** BF140490.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB165039BS | Hexachlorobenzene | 50 | 44.2 | ug/L | 88 | | | | 53 | 125 | |
| | Atrazine | 50 | 49.5 | ug/L | 99 | | | | 44 | 142 | |
| | Pentachlorophenol | 100 | 84.3 | ug/L | 84 | | | | 35 | 138 | |
| | Phenanthrene | 50 | 44.5 | ug/L | 89 | | | | 59 | 120 | |
| | Anthracene | 50 | 46.9 | ug/L | 94 | | | | 57 | 123 | |
| | Carbazole | 50 | 43.6 | ug/L | 87 | | | | 60 | 122 | |
| | Di-n-butylphthalate | 50 | 44.3 | ug/L | 89 | | | | 59 | 127 | |
| | Fluoranthene | 50 | 43.9 | ug/L | 88 | | | | 57 | 128 | |
| | Pyrene | 50 | 46.9 | ug/L | 94 | | | | 57 | 126 | |
| | Butylbenzylphthalate | 50 | 48.3 | ug/L | 97 | | | | 53 | 134 | |
| | 3,3-Dichlorobenzidine | 50 | 28.7 | ug/L | 57 | | | | 27 | 129 | |
| | Benzo(a)anthracene | 50 | 46.9 | ug/L | 94 | | | | 58 | 125 | |
| | Chrysene | 50 | 43.9 | ug/L | 88 | | | | 59 | 123 | |
| | bis(2-Ethylhexyl)phthalate | 50 | 47.0 | ug/L | 94 | | | | 55 | 135 | |
| | Di-n-octyl phthalate | 50 | 44.6 | ug/L | 89 | | | | 51 | 140 | |
| | Benzo(b)fluoranthene | 50 | 42.6 | ug/L | 85 | | | | 53 | 131 | |
| | Benzo(k)fluoranthene | 50 | 46.2 | ug/L | 92 | | | | 57 | 129 | |
| | Benzo(a)pyrene | 50 | 48.8 | ug/L | 98 | | | | 54 | 128 | |
| | Indeno(1,2,3-cd)pyrene | 50 | 50.5 | ug/L | 101 | | | | 52 | 134 | |
| | Dibenz(a,h)anthracene | 50 | 50.1 | ug/L | 100 | | | | 51 | 134 | |
| | Benzo(g,h,i)perylene | 50 | 46.4 | ug/L | 93 | | | | 50 | 134 | |
| | 1,2,4,5-Tetrachlorobenzene | 50 | 42.9 | ug/L | 86 | | | | 35 | 121 | |
| | 1,4-Dioxane | 50 | 37.4 | ug/L | 75 | | | | 70 | 130 | |
| | 2,3,4,6-Tetrachlorophenol | 50 | 45.2 | ug/L | 90 | | | | 50 | 128 | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4868

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

**Analytical Method:** 8270E **DataFile:** BF140491.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB165039BSD | Benzaldehyde | 50 | 38.3 | ug/L | 77 | 0 | | | 10 | 161 | 20 |
| | Phenol | 50 | 42.4 | ug/L | 85 | 2 | | | 10 | 132 | 20 |
| | bis(2-Chloroethyl)ether | 50 | 44.1 | ug/L | 88 | 1 | | | 43 | 118 | 20 |
| | 2-Chlorophenol | 50 | 44.9 | ug/L | 90 | 1 | | | 38 | 117 | 20 |
| | 2-Methylphenol | 50 | 43.3 | ug/L | 87 | 1 | | | 30 | 117 | 20 |
| | 2,2-oxybis(1-Chloropropane) | 50 | 41.3 | ug/L | 83 | 0 | | | 37 | 130 | 20 |
| | Acetophenone | 50 | 42.8 | ug/L | 86 | 1 | | | 46 | 118 | 20 |
| | 3+4-Methylphenols | 50 | 43.9 | ug/L | 88 | 0 | | | 29 | 110 | 20 |
| | N-Nitroso-di-n-propylamine | 50 | 41.9 | ug/L | 84 | 1 | | | 49 | 119 | 20 |
| | Hexachloroethane | 50 | 42.1 | ug/L | 84 | 1 | | | 21 | 115 | 20 |
| | Nitrobenzene | 50 | 41.3 | ug/L | 83 | 0 | | | 45 | 121 | 20 |
| | Isophorone | 50 | 43.3 | ug/L | 87 | 0 | | | 42 | 124 | 20 |
| | 2-Nitrophenol | 50 | 44.9 | ug/L | 90 | 0 | | | 47 | 123 | 20 |
| | 2,4-Dimethylphenol | 50 | 53.1 | ug/L | 106 | 2 | | | 31 | 124 | 20 |
| | bis(2-Chloroethoxy)methane | 50 | 42.6 | ug/L | 85 | 2 | | | 48 | 120 | 20 |
| | 2,4-Dichlorophenol | 50 | 44.8 | ug/L | 90 | 0 | | | 47 | 121 | 20 |
| | Naphthalene | 50 | 43.0 | ug/L | 86 | 0 | | | 40 | 121 | 20 |
| | 4-Chloroaniline | 50 | 20.2 | ug/L | 40 | 12 | | | 33 | 117 | 20 |
| | Hexachlorobutadiene | 50 | 41.8 | ug/L | 84 | 2 | | | 22 | 124 | 20 |
| | Caprolactam | 50 | 43.2 | ug/L | 86 | 2 | | | 10 | 161 | 20 |
| | 4-Chloro-3-methylphenol | 50 | 45.5 | ug/L | 91 | 2 | | | 52 | 119 | 20 |
| | 2-Methylnaphthalene | 50 | 43.6 | ug/L | 87 | 1 | | | 40 | 121 | 20 |
| | Hexachlorocyclopentadiene | 100 | 160 | ug/L | 160 | 0 | * | | 10 | 155 | 20 |
| | 2,4,6-Trichlorophenol | 50 | 44.5 | ug/L | 89 | 1 | | | 50 | 125 | 20 |
| | 2,4,5-Trichlorophenol | 50 | 42.9 | ug/L | 86 | 1 | | | 53 | 123 | 20 |
| | 1,1-Biphenyl | 50 | 43.3 | ug/L | 87 | 1 | | | 49 | 115 | 20 |
| | 2-Chloronaphthalene | 50 | 42.6 | ug/L | 85 | 2 | | | 40 | 116 | 20 |
| | 2-Nitroaniline | 50 | 44.7 | ug/L | 89 | 2 | | | 55 | 127 | 20 |
| | Dimethylphthalate | 50 | 45.1 | ug/L | 90 | 2 | | | 45 | 127 | 20 |
| | Acenaphthylene | 50 | 46.8 | ug/L | 94 | 1 | | | 41 | 130 | 20 |
| | 2,6-Dinitrotoluene | 50 | 43.4 | ug/L | 87 | 1 | | | 57 | 124 | 20 |
| | 3-Nitroaniline | 50 | 28.0 | ug/L | 56 | 2 | | | 41 | 128 | 20 |
| | Acenaphthene | 50 | 49.1 | ug/L | 98 | 0 | | | 47 | 122 | 20 |
| | 2,4-Dinitrophenol | 100 | 90.3 | ug/L | 90 | 1 | | | 23 | 143 | 20 |
| | 4-Nitrophenol | 100 | 83.4 | ug/L | 83 | 2 | | | 10 | 161 | 20 |
| | Dibenzofuran | 50 | 44.5 | ug/L | 89 | 1 | | | 53 | 118 | 20 |
| | 2,4-Dinitrotoluene | 50 | 44.7 | ug/L | 89 | 4 | | | 57 | 128 | 20 |
| | Diethylphthalate | 50 | 44.2 | ug/L | 88 | 3 | | | 56 | 125 | 20 |
| | 4-Chlorophenyl-phenylether | 50 | 44.0 | ug/L | 88 | 2 | | | 53 | 121 | 20 |
| | Fluorene | 50 | 44.3 | ug/L | 89 | 2 | | | 52 | 124 | 20 |
| | 4-Nitroaniline | 50 | 43.2 | ug/L | 86 | 3 | | | 35 | 120 | 20 |
| | 4,6-Dinitro-2-methylphenol | 50 | 47.9 | ug/L | 96 | 1 | | | 44 | 137 | 20 |
| | N-Nitrosodiphenylamine | 50 | 45.6 | ug/L | 91 | 2 | | | 51 | 123 | 20 |
| | 4-Bromophenyl-phenylether | 50 | 44.6 | ug/L | 89 | 1 | | | 55 | 124 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4868

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

**Analytical Method:** 8270E **DataFile:** BF140491.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB165039BSD | Hexachlorobenzene | 50 | 44.2 | ug/L | 88 | 0 | | | 53 | 125 | 20 |
| | Atrazine | 50 | 50.0 | ug/L | 100 | 1 | | | 44 | 142 | 20 |
| | Pentachlorophenol | 100 | 84.5 | ug/L | 85 | 0 | | | 35 | 138 | 20 |
| | Phenanthrene | 50 | 45.0 | ug/L | 90 | 1 | | | 59 | 120 | 20 |
| | Anthracene | 50 | 47.6 | ug/L | 95 | 1 | | | 57 | 123 | 20 |
| | Carbazole | 50 | 44.4 | ug/L | 89 | 2 | | | 60 | 122 | 20 |
| | Di-n-butylphthalate | 50 | 44.4 | ug/L | 89 | 0 | | | 59 | 127 | 20 |
| | Fluoranthene | 50 | 44.4 | ug/L | 89 | 1 | | | 57 | 128 | 20 |
| | Pyrene | 50 | 46.6 | ug/L | 93 | 1 | | | 57 | 126 | 20 |
| | Butylbenzylphthalate | 50 | 47.9 | ug/L | 96 | 1 | | | 53 | 134 | 20 |
| | 3,3-Dichlorobenzidine | 50 | 29.0 | ug/L | 58 | 1 | | | 27 | 129 | 20 |
| | Benzo(a)anthracene | 50 | 44.8 | ug/L | 90 | 5 | | | 58 | 125 | 20 |
| | Chrysene | 50 | 45.5 | ug/L | 91 | 4 | | | 59 | 123 | 20 |
| | bis(2-Ethylhexyl)phthalate | 50 | 47.2 | ug/L | 94 | 0 | | | 55 | 135 | 20 |
| | Di-n-octyl phthalate | 50 | 45.1 | ug/L | 90 | 1 | | | 51 | 140 | 20 |
| | Benzo(b)fluoranthene | 50 | 42.5 | ug/L | 85 | 0 | | | 53 | 131 | 20 |
| | Benzo(k)fluoranthene | 50 | 46.4 | ug/L | 93 | 0 | | | 57 | 129 | 20 |
| | Benzo(a)pyrene | 50 | 48.7 | ug/L | 97 | 0 | | | 54 | 128 | 20 |
| | Indeno(1,2,3-cd)pyrene | 50 | 49.1 | ug/L | 98 | 3 | | | 52 | 134 | 20 |
| | Dibenz(a,h)anthracene | 50 | 48.7 | ug/L | 97 | 3 | | | 51 | 134 | 20 |
| | Benzo(g,h,i)perylene | 50 | 45.0 | ug/L | 90 | 3 | | | 50 | 134 | 20 |
| | 1,2,4,5-Tetrachlorobenzene | 50 | 43.4 | ug/L | 87 | 1 | | | 35 | 121 | 20 |
| | 1,4-Dioxane | 50 | 37.8 | ug/L | 76 | 1 | | | 70 | 130 | 20 |
| | 2,3,4,6-Tetrachlorophenol | 50 | 47.2 | ug/L | 94 | 4 | | | 50 | 128 | 20 |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165039BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4868 SAS No.: P4868 SDG NO.: P4868

Lab File ID: BF140489.D Lab Sample ID: PB165039BL

Instrument ID: BNA_F Date Extracted: 11/16/2024

Matrix: (soil/water) Water Date Analyzed: 11/20/2024

Level: (low/med) LOW Time Analyzed: 09:57

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB165039BS | PB165039BS | BF140490.D | 11/20/2024 |
| PB165039BSD | PB165039BSD | BF140491.D | 11/20/2024 |
| RW5-SP100-20241114 | P4868-01 | BF140493.D | 11/20/2024 |
| RW5-SP303-20241114 | P4868-03 | BF140494.D | 11/20/2024 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P4868 SDG NO.: P4868

Lab File ID: BF140331.D DFTPP Injection Date: 11/13/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:35

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 36.9 |
| 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 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.6 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.4 |
| 275 | 10.0 - 60.0% of mass 198 | 28.3 |
| 365 | Greater than 1% of mass 198 | 3.5 |
| 441 | Present, but less than mass 443 | 14 |
| 442 | Greater than 50% of mass 198 | 88.6 |
| 443 | 15.0 - 24.0% of mass 442 | 16.7 (18.8) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF140332.D | 11/13/2024 | 09:01 |
| SSTDICC005 | SSTDICC005 | BF140333.D | 11/13/2024 | 09:27 |
| SSTDICC010 | SSTDICC010 | BF140334.D | 11/13/2024 | 09:53 |
| SSTDICC020 | SSTDICC020 | BF140335.D | 11/13/2024 | 10:29 |
| SSTDICC050 | SSTDICC050 | BF140337.D | 11/13/2024 | 11:21 |
| SSTDICC060 | SSTDICC060 | BF140338.D | 11/13/2024 | 11:47 |
| SSTDICC080 | SSTDICC080 | BF140339.D | 11/13/2024 | 12:13 |
| SSTDICCC040 | SSTDICCC040 | BF140340.D | 11/13/2024 | 12:48 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P4868 SDG NO.: P4868

Lab File ID: BF140487.D DFTPP Injection Date: 11/20/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:04

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 34.1 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 35.9 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.2 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 29 |
| 365 | Greater than 1% of mass 198 | 3.8 |
| 441 | Present, but less than mass 443 | 15.2 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 18.3 (18.3) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF140488.D | 11/20/2024 | 09:31 |
| PB165039BL | PB165039BL | BF140489.D | 11/20/2024 | 09:57 |
| PB165039BS | PB165039BS | BF140490.D | 11/20/2024 | 10:23 |
| PB165039BSD | PB165039BSD | BF140491.D | 11/20/2024 | 10:49 |
| RW5-SP100-20241114 | P4868-01 | BF140493.D | 11/20/2024 | 11:49 |
| RW5-SP303-20241114 | P4868-03 | BF140494.D | 11/20/2024 | 12:15 |
| RW5-SP303-20241114RE | P4868-03RE | BF140498.D | 11/20/2024 | 14:01 |
| SSTDCCC040EC | SSTDCCC040 | BF140499.D | 11/20/2024 | 14:34 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4868 SAS No.: P4868 SDG NO.: P4868

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/20/2024

Lab File ID: BF140488.D Time Analyzed: 09:31

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 | 132364 | 6.875 | 490485 | 8.16 | 273054 | 9.92 |
| | UPPER LIMIT | 264728 | 7.375 | 980970 | 8.657 | 546108 | 10.416 |
| | LOWER LIMIT | 66182 | 6.375 | 245243 | 7.657 | 136527 | 9.416 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB165039BL | 125559 | 6.88 | 478277 | 8.15 | 268353 | 9.91 |
| 02 | PB165039BS | 123122 | 6.88 | 469130 | 8.16 | 266786 | 9.91 |
| 03 | PB165039BSD | 121736 | 6.88 | 462447 | 8.15 | 259407 | 9.91 |
| 04 | RW5-SP100-20241114 | 115090 | 6.88 | 438706 | 8.15 | 246450 | 9.91 |
| 05 | RW5-SP303-20241114 | 111180 | 6.88 | 421980 | 8.15 | 217249 | 9.90 |
| 06 | RW5-SP303-20241114RE | 107774 | 6.87 | 401651 | 8.15 | 185909 | 9.90 |

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.: P4868 SAS No.: P4868 SDG NO.: P4868

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/20/2024

Lab File ID: BF140488.D Time Analyzed: 09:31

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 | 510213 | 11.404 | 268548 | 14.051 | 246006 | | 15.539 |
| | UPPER LIMIT | 1020430 | 11.904 | 537096 | 14.551 | 492012 | | 16.039 |
| | LOWER LIMIT | 255107 | 10.904 | 134274 | 13.551 | 123003 | | 15.039 |
| | EPA SAMPLE NO. | | | | | | | |
| 01 | PB165039BL | 515282 | 11.40 | 344131 | 14.06 | 286700 | | 15.58 |
| 02 | PB165039BS | 499057 | 11.40 | 288313 | 14.06 | 231323 | | 15.57 |
| 03 | PB165039BSD | 492347 | 11.40 | 292939 | 14.06 | 237975 | | 15.57 |
| 04 | RW5-SP100-20241114 | 461031 | 11.40 | 281660 | 14.05 | 215486 | | 15.56 |
| 05 | RW5-SP303-20241114 | 429469 | 11.40 | 252845 | 14.05 | 112601 | * | 15.56 |
| 06 | RW5-SP303-20241114RE | 383896 | 11.40 | 211068 | 14.04 | 81264 | * | 15.53 |

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: | CTO WE13 | Date Received: | |
| Client Sample ID: | PB165039BL | SDG No.: | P4868 |
| Lab Sample ID: | PB165039BL | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140489.D | 1 | 11/16/24 08:15 | 11/20/24 09:57 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 100-52-7 | Benzaldehyde | 8.00 | U | 4.00 | 8.00 | 10.0 | ug/L |
| 108-95-2 | Phenol | 4.00 | U | 0.93 | 4.00 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 4.00 | U | 0.71 | 4.00 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 4.00 | U | 1.40 | 4.00 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 8.00 | U | 1.20 | 8.00 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 2.50 | U | 1.50 | 2.50 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 4.00 | U | 2.00 | 4.00 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 4.00 | U | 0.88 | 4.00 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 8.00 | U | 1.70 | 8.00 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 4.00 | U | 0.84 | 4.00 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 8.00 | U | 5.00 | 8.00 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 4.00 | U | 0.89 | 4.00 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 4.00 | U | 0.91 | 4.00 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 4.00 | U | 0.97 | 4.00 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 4.00 | U | 1.40 | 4.00 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 4.00 | U | 0.93 | 4.00 | 5.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | PB165039BL | SDG No.: | P4868 |
| Lab Sample ID: | PB165039BL | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140489.D | 1 | 11/16/24 08:15 | 11/20/24 09:57 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 4.00 | U | 1.40 | 4.00 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 4.00 | U | 0.81 | 4.00 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 8.00 | U | 6.40 | 8.00 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 8.00 | U | 2.00 | 8.00 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 4.00 | U | 0.93 | 4.00 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 4.00 | U | 0.98 | 4.00 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 4.00 | U | 0.96 | 4.00 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 4.00 | U | 2.00 | 4.00 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 8.00 | U | 3.10 | 8.00 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 4.00 | U | 0.89 | 4.00 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 4.00 | U | 0.95 | 4.00 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 8.00 | U | 1.90 | 8.00 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 4.00 | U | 0.89 | 4.00 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 4.00 | U | 2.10 | 4.00 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 8.00 | U | 1.30 | 8.00 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 4.00 | U | 0.94 | 4.00 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 4.00 | U | 0.86 | 4.00 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 4.00 | U | 1.90 | 4.00 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 8.00 | U | 2.50 | 8.00 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | PB165039BL | SDG No.: | P4868 |
| Lab Sample ID: | PB165039BL | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140489.D | 1 | 11/16/24 08:15 | 11/20/24 09:57 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 4.00 | U | 1.70 | 4.00 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 4.00 | U | 1.30 | 4.00 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 4.00 | U | 0.79 | 4.00 | 5.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 367-12-4 | 2-Fluorophenol | 125 | | 19 - 119 | | 83% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 120 | | 10 - 130 | | 80% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 86.8 | | 44 - 120 | | 87% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 90.2 | | 44 - 119 | | 90% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 128 | | 43 - 140 | | 85% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 87.1 | | 50 - 134 | | 87% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 126000 | 6.875 | | | | |
| 1146-65-2 | Naphthalene-d8 | 478000 | 8.151 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 268000 | 9.91 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 515000 | 11.398 | | | | |
| 1719-03-5 | Chrysene-d12 | 344000 | 14.063 | | | | |
| 1520-96-3 | Perylene-d12 | 287000 | 15.58 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.20 | A | | | 5.12 | ug/L |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | | | Date Collected: | |
| Project: | CTO WE13 | | | Date Received: | |
| Client Sample ID: | PB165039BL | | | SDG No.: | P4868 |
| Lab Sample ID: | PB165039BL | | | Matrix: | Water |
| Analytical Method: | SW8270 | | | % Solid: | 0 |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3510C | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140489.D | 1 | 11/16/24 08:15 | 11/20/24 09:57 | PB165039 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | PB165039BS | SDG No.: | P4868 |
| Lab Sample ID: | PB165039BS | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140490.D | 1 | 11/16/24 08:15 | 11/20/24 10:23 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 100-52-7 | Benzaldehyde | 38.4 | | 4.00 | 8.00 | 10.0 | ug/L |
| 108-95-2 | Phenol | 43.2 | | 0.93 | 4.00 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 43.6 | | 1.20 | 4.00 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 45.4 | | 0.71 | 4.00 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 43.6 | | 1.10 | 4.00 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 41.3 | | 1.40 | 4.00 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 42.4 | | 1.10 | 4.00 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 43.8 | | 1.20 | 8.00 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 42.2 | | 1.50 | 2.50 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 42.7 | | 1.00 | 4.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 41.1 | | 1.30 | 4.00 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 43.3 | | 1.10 | 4.00 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 44.7 | | 2.00 | 4.00 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 54.0 | | 1.50 | 4.00 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 43.3 | | 1.00 | 4.00 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 44.8 | | 0.88 | 4.00 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 42.9 | | 1.00 | 4.00 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 22.7 | | 1.30 | 4.00 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 42.5 | | 1.30 | 4.00 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 44.1 | | 1.70 | 8.00 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 44.8 | | 0.84 | 4.00 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 43.9 | | 1.10 | 4.00 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | E | 5.00 | 8.00 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 44.1 | | 0.89 | 4.00 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 42.6 | | 1.00 | 4.00 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 42.8 | | 0.91 | 4.00 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 41.9 | | 0.97 | 4.00 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 43.6 | | 1.40 | 4.00 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 44.1 | | 0.93 | 4.00 | 5.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | PB165039BS | SDG No.: | P4868 |
| Lab Sample ID: | PB165039BS | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140490.D | 1 | 11/16/24 08:15 | 11/20/24 10:23 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 46.2 | | 1.00 | 4.00 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 42.9 | | 1.20 | 4.00 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 28.7 | | 1.40 | 4.00 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 49.2 | | 0.81 | 4.00 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 89.3 | E | 6.40 | 8.00 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 81.6 | E | 2.00 | 8.00 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 44.2 | | 0.93 | 4.00 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 43.1 | | 1.50 | 4.00 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 43.1 | | 1.00 | 4.00 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 43.3 | | 0.98 | 4.00 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 43.3 | | 0.96 | 4.00 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 41.9 | | 2.00 | 4.00 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 47.3 | | 3.10 | 8.00 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 44.9 | | 0.89 | 4.00 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 44.1 | | 0.95 | 4.00 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 44.2 | | 1.10 | 4.00 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 49.5 | | 1.30 | 4.00 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 84.3 | E | 1.90 | 8.00 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 44.5 | | 0.89 | 4.00 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 46.9 | | 1.10 | 4.00 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 43.6 | | 1.20 | 4.00 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 44.3 | | 1.50 | 4.00 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 43.9 | | 1.30 | 4.00 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 46.9 | | 1.10 | 4.00 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 48.3 | | 2.10 | 4.00 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 28.7 | | 1.30 | 8.00 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 46.9 | | 0.94 | 4.00 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 43.9 | | 0.86 | 4.00 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 47.0 | | 1.90 | 4.00 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 44.6 | | 2.50 | 8.00 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 42.6 | | 1.10 | 4.00 | 5.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | PB165039BS | SDG No.: | P4868 |
| Lab Sample ID: | PB165039BS | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140490.D | 1 | 11/16/24 08:15 | 11/20/24 10:23 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 46.2 | | 1.20 | 4.00 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 48.8 | | 1.70 | 4.00 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 50.5 | | 1.00 | 4.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 50.1 | | 1.20 | 4.00 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 46.4 | | 1.20 | 4.00 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 42.9 | | 1.10 | 4.00 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 37.4 | | 1.30 | 4.00 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 45.2 | | 0.79 | 4.00 | 5.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 367-12-4 | 2-Fluorophenol | 121 | | 19 - 119 | | 81% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 117 | | 10 - 130 | | 78% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 83.1 | | 44 - 120 | | 83% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 84.5 | | 44 - 119 | | 84% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 130 | | 43 - 140 | | 86% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 94.8 | | 50 - 134 | | 95% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 123000 | 6.875 | | | | |
| 1146-65-2 | Naphthalene-d8 | 469000 | 8.157 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 267000 | 9.91 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 499000 | 11.404 | | | | |
| 1719-03-5 | Chrysene-d12 | 288000 | 14.057 | | | | |
| 1520-96-3 | Perylene-d12 | 231000 | 15.569 | | | | |

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: | CTO WE13 | Date Received: | |
| Client Sample ID: | PB165039BSD | SDG No.: | P4868 |
| Lab Sample ID: | PB165039BSD | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140491.D | 1 | 11/16/24 08:15 | 11/20/24 10:49 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 100-52-7 | Benzaldehyde | 38.3 | | 4.00 | 8.00 | 10.0 | ug/L |
| 108-95-2 | Phenol | 42.4 | | 0.93 | 4.00 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 44.1 | | 1.20 | 4.00 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 44.9 | | 0.71 | 4.00 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 43.3 | | 1.10 | 4.00 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 41.3 | | 1.40 | 4.00 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 42.8 | | 1.10 | 4.00 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 43.9 | | 1.20 | 8.00 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 41.9 | | 1.50 | 2.50 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 42.1 | | 1.00 | 4.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 41.3 | | 1.30 | 4.00 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 43.3 | | 1.10 | 4.00 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 44.9 | | 2.00 | 4.00 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 53.1 | | 1.50 | 4.00 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 42.6 | | 1.00 | 4.00 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 44.8 | | 0.88 | 4.00 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 43.0 | | 1.00 | 4.00 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 20.2 | | 1.30 | 4.00 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 41.8 | | 1.30 | 4.00 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 43.2 | | 1.70 | 8.00 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 45.5 | | 0.84 | 4.00 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 43.6 | | 1.10 | 4.00 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | E | 5.00 | 8.00 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 44.5 | | 0.89 | 4.00 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 42.9 | | 1.00 | 4.00 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 43.3 | | 0.91 | 4.00 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 42.6 | | 0.97 | 4.00 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 44.7 | | 1.40 | 4.00 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 45.1 | | 0.93 | 4.00 | 5.00 | ug/L |

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Fax : 908 789 8922



# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | | | Date Collected: | |
| Project: | CTO WE13 | | | Date Received: | |
| Client Sample ID: | PB165039BSD | | | SDG No.: | P4868 |
| Lab Sample ID: | PB165039BSD | | | Matrix: | Water |
| Analytical Method: | SW8270 | | | % Solid: | 0 |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3510C | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140491.D | 1 | 11/16/24 08:15 | 11/20/24 10:49 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 46.8 | | 1.00 | 4.00 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 43.4 | | 1.20 | 4.00 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 28.0 | | 1.40 | 4.00 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 49.1 | | 0.81 | 4.00 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 90.3 | E | 6.40 | 8.00 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 83.4 | E | 2.00 | 8.00 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 44.5 | | 0.93 | 4.00 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 44.7 | | 1.50 | 4.00 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 44.2 | | 1.00 | 4.00 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 44.0 | | 0.98 | 4.00 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 44.3 | | 0.96 | 4.00 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 43.2 | | 2.00 | 4.00 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 47.9 | | 3.10 | 8.00 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 45.6 | | 0.89 | 4.00 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 44.6 | | 0.95 | 4.00 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 44.2 | | 1.10 | 4.00 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 50.0 | | 1.30 | 4.00 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 84.5 | E | 1.90 | 8.00 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 45.0 | | 0.89 | 4.00 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 47.6 | | 1.10 | 4.00 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 44.4 | | 1.20 | 4.00 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 44.4 | | 1.50 | 4.00 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 44.4 | | 1.30 | 4.00 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 46.6 | | 1.10 | 4.00 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 47.9 | | 2.10 | 4.00 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 29.0 | | 1.30 | 8.00 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 44.8 | | 0.94 | 4.00 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 45.5 | | 0.86 | 4.00 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 47.2 | | 1.90 | 4.00 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 45.1 | | 2.50 | 8.00 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 42.5 | | 1.10 | 4.00 | 5.00 | ug/L |

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



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | PB165039BSD | SDG No.: | P4868 |
| Lab Sample ID: | PB165039BSD | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140491.D | 1 | 11/16/24 08:15 | 11/20/24 10:49 | PB165039 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 46.4 | | 1.20 | 4.00 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 48.7 | | 1.70 | 4.00 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 49.1 | | 1.00 | 4.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 48.7 | | 1.20 | 4.00 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 45.0 | | 1.20 | 4.00 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 43.4 | | 1.10 | 4.00 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 37.8 | | 1.30 | 4.00 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 47.2 | | 0.79 | 4.00 | 5.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 367-12-4 | 2-Fluorophenol | 121 | | 19 - 119 | | 81% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 117 | | 10 - 130 | | 78% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 82.7 | | 44 - 120 | | 83% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 85.6 | | 44 - 119 | | 86% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 131 | | 43 - 140 | | 87% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 93.3 | | 50 - 134 | | 93% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 122000 | 6.875 | | | | |
| 1146-65-2 | Naphthalene-d8 | 462000 | 8.151 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 259000 | 9.91 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 492000 | 11.404 | | | | |
| 1719-03-5 | Chrysene-d12 | 293000 | 14.057 | | | | |
| 1520-96-3 | Perylene-d12 | 238000 | 15.568 | | | | |

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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF1403
39.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.582 | 0.546 | 0.530 | 0.515 | 0.495 | 0.506 | 0.480 | 0.522 | 6.53 |
| 3) | | Pyridine | | 1.430 | 1.343 | 1.323 | 1.316 | 1.189 | 1.237 | 1.147 | 1.283 | 7.61 |
| 4) | | n-Nitrosodimet... | | 0.658 | 0.632 | 0.651 | 0.659 | 0.644 | 0.671 | 0.627 | 0.649 | 2.39 |
| 5) | S | 2-Fluorophenol | | 1.329 | 1.257 | 1.223 | 1.150 | 1.090 | 1.118 | 1.032 | 1.171 | 8.84 |
| 6) | | Aniline | | 1.587 | 1.527 | 1.495 | 1.451 | 1.267 | 1.270 | 1.066 | 1.381 | 13.42 |
| 7) | S | Phenol-d6 | | 1.773 | 1.691 | 1.643 | 1.605 | 1.483 | 1.507 | 1.407 | 1.587 | 8.09 |
| 8) | | 2-Chlorophenol | | 1.397 | 1.349 | 1.332 | 1.263 | 1.176 | 1.184 | 1.106 | 1.258 | 8.49 |
| 9) | | Benzaldehyde | | 1.101 | 1.087 | 1.017 | 0.891 | 0.828 | 0.783 | | 0.951 | 14.32 |
| 10) | C | Phenol | | 1.799 | 1.793 | 1.743 | 1.724 | 1.582 | 1.597 | 1.478 | 1.674 | 7.31 |
| 11) | | bis(2-Chloroet... | | 1.359 | 1.294 | 1.306 | 1.263 | 1.227 | 1.249 | 1.179 | 1.268 | 4.60 |
| 12) | | 1,3-Dichlorobe... | | 1.585 | 1.475 | 1.454 | 1.374 | 1.291 | 1.317 | 1.221 | 1.388 | 8.98 |
| 13) | C | 1,4-Dichlorobe... | | 1.590 | 1.534 | 1.486 | 1.391 | 1.306 | 1.326 | 1.221 | 1.408 | 9.49 |
| 14) | | 1,2-Dichlorobe... | | 1.494 | 1.429 | 1.398 | 1.294 | 1.212 | 1.214 | 1.108 | 1.307 | 10.63 |
| 15) | | Benzyl Alcohol | | 1.172 | 1.193 | 1.199 | 1.211 | 1.100 | 1.108 | 1.020 | 1.143 | 6.10 |
| 16) | | 2,2'-oxybis(1-... | | 1.906 | 1.826 | 1.815 | 1.816 | 1.666 | 1.684 | 1.549 | 1.752 | 7.01 |
| 17) | | 2-Methylphenol | | 1.092 | 1.062 | 1.072 | 1.064 | 0.998 | 1.016 | 0.942 | 1.035 | 5.07 |
| 18) | | Hexachloroethane | | 0.562 | 0.543 | 0.550 | 0.514 | 0.500 | 0.506 | 0.468 | 0.520 | 6.30 |
| 19) | P | n-Nitroso-di-n... | 1.032 | 1.029 | 1.003 | 0.986 | 0.982 | 0.883 | 0.905 | 0.848 | 0.959 | 7.30 |
| 20) | | 3+4-Methylphenols | | 1.436 | 1.427 | 1.359 | 1.351 | 1.200 | 1.198 | 1.091 | 1.294 | 10.21 |
| 21) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | | |
| 22) | | Acetophenone | | 0.532 | 0.508 | 0.481 | 0.450 | 0.434 | 0.441 | 0.411 | 0.465 | 9.35 |
| 23) | S | Nitrobenzene-d5 | | 0.411 | 0.401 | 0.399 | 0.375 | 0.368 | 0.379 | 0.354 | 0.384 | 5.28 |
| 24) | | Nitrobenzene | | 0.423 | 0.421 | 0.406 | 0.393 | 0.390 | 0.394 | 0.371 | 0.400 | 4.61 |
| 25) | | Isophorone | | 0.736 | 0.702 | 0.692 | 0.674 | 0.654 | 0.671 | 0.634 | 0.680 | 4.87 |
| 26) | C | 2-Nitrophenol | | 0.175 | 0.179 | 0.181 | 0.179 | 0.175 | 0.181 | 0.171 | 0.177 | 1.99 |
| 27) | | 2,4-Dimethylph... | | 0.238 | 0.236 | 0.232 | 0.223 | 0.221 | 0.227 | 0.214 | 0.227 | 3.86 |
| 28) | | bis(2-Chloroet... | | 0.461 | 0.442 | 0.430 | 0.407 | 0.398 | 0.404 | 0.379 | 0.417 | 6.80 |
| 29) | C | 2,4-Dichloroph... | | 0.307 | 0.296 | 0.287 | 0.275 | 0.272 | 0.272 | 0.255 | 0.281 | 6.20 |
| 30) | | 1,2,4-Trichlor... | | 0.346 | 0.331 | 0.325 | 0.302 | 0.298 | 0.301 | 0.283 | 0.312 | 7.15 |
| 31) | | Naphthalene | | 1.160 | 1.105 | 1.064 | 0.982 | 0.950 | 0.955 | 0.886 | 1.015 | 9.60 |
| 32) | | Benzoic acid | | 0.162 | 0.178 | 0.180 | 0.212 | 0.215 | 0.226 | 0.226 | 0.200 | 13.01 |
| 33) | | 4-Chloroaniline | | 0.390 | 0.386 | 0.370 | 0.340 | 0.333 | 0.340 | 0.311 | 0.353 | 8.36 |
| 34) | C | Hexachlorobuta... | | 0.220 | 0.214 | 0.210 | 0.193 | 0.188 | 0.190 | 0.178 | 0.199 | 7.73 |
| 35) | | Caprolactam | | 0.098 | 0.093 | 0.094 | 0.092 | 0.091 | 0.095 | 0.089 | 0.093 | 3.27 |
| 36) | C | 4-Chloro-3-met... | | 0.331 | 0.327 | 0.320 | 0.309 | 0.299 | 0.304 | 0.287 | 0.311 | 5.14 |
| 37) | | 2-Methylnaphth... | | 0.751 | 0.706 | 0.683 | 0.632 | 0.610 | 0.607 | 0.565 | 0.651 | 10.01 |
| 38) | | 1-Methylnaphth... | | 0.734 | 0.696 | 0.673 | 0.625 | 0.589 | 0.592 | 0.550 | 0.637 | 10.39 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.646 | 0.585 | 0.583 | 0.531 | 0.524 | 0.517 | 0.485 | 0.553 | 9.85 |
| 41) | P | Hexachlorocycl... | | 0.111 | 0.143 | 0.139 | 0.156 | 0.159 | 0.145 | 0.142 | 12.04 |
| 42) | S | 2,4,6-Tribromo... | 0.220 | 0.211 | 0.207 | 0.193 | 0.191 | 0.189 | 0.182 | 0.199 | 6.88 |
| 43) | C | 2,4,6-Trichlor... | 0.380 | 0.374 | 0.374 | 0.360 | 0.360 | 0.352 | 0.341 | 0.363 | 3.87 |
| 44) | | 2,4,5-Trichlor... | 0.421 | 0.417 | 0.412 | 0.389 | 0.387 | 0.390 | 0.361 | 0.397 | 5.41 |
| 45) | S | 2-Fluorobiphenyl | 1.524 | 1.396 | 1.351 | 1.172 | 1.125 | 1.110 | 1.031 | 1.244 | 14.50 |
| 46) | | 1,1'-Biphenyl | 1.690 | 1.571 | 1.565 | 1.404 | 1.368 | 1.343 | 1.244 | 1.455 | 10.80 |
| 47) | | 2-Chloronaphth... | 1.279 | 1.182 | 1.149 | 1.065 | 1.064 | 1.049 | 0.971 | 1.108 | 9.20 |
| 48) | | 2-Nitroaniline | 0.378 | 0.365 | 0.384 | 0.364 | 0.365 | 0.366 | 0.351 | 0.368 | 2.91 |
| 49) | | Acenaphthylene | 1.940 | 1.802 | 1.786 | 1.636 | 1.582 | 1.552 | 1.441 | 1.677 | 10.29 |
| 50) | | Dimethylphthalate | 1.464 | 1.358 | 1.371 | 1.261 | 1.246 | 1.244 | 1.181 | 1.304 | 7.47 |
| 51) | | 2,6-Dinitrotol... | 0.317 | 0.303 | 0.313 | 0.297 | 0.291 | 0.289 | 0.268 | 0.297 | 5.57 |
| 52) | C | Acenaphthene | 1.259 | 1.204 | 1.192 | 1.096 | 1.091 | 1.079 | 1.006 | 1.133 | 7.78 |
| 53) | | 3-Nitroaniline | 0.333 | 0.327 | 0.335 | 0.310 | 0.307 | 0.298 | 0.275 | 0.312 | 6.92 |
| 54) | P | 2,4-Dinitrophenol | | 0.109 | 0.148 | 0.147 | 0.178 | 0.170 | 0.168 | 0.153 | 16.27 |
| 55) | | Dibenzofuran | 1.904 | 1.736 | 1.715 | 1.558 | 1.502 | 1.466 | 1.344 | 1.603 | 11.92 |
| 56) | P | 4-Nitrophenol | 0.199 | 0.217 | 0.239 | 0.236 | 0.240 | 0.237 | 0.225 | 0.228 | 6.67 |
| 57) | | 2,4-Dinitrotol... | 0.414 | 0.400 | 0.417 | 0.387 | 0.387 | 0.382 | 0.351 | 0.391 | 5.77 |
| 58) | | Fluorene | 1.525 | 1.403 | 1.365 | 1.202 | 1.168 | 1.137 | 1.066 | 1.267 | 13.14 |
| 59) | | 2,3,4,6-Tetrac... | 0.322 | 0.328 | 0.326 | 0.318 | 0.308 | 0.302 | 0.288 | 0.313 | 4.61 |
| 60) | | Diethylphthalate | 1.525 | 1.417 | 1.398 | 1.287 | 1.272 | 1.246 | 1.185 | 1.333 | 8.85 |
| 61) | | 4-Chlorophenyl... | 0.739 | 0.688 | 0.669 | 0.604 | 0.583 | 0.567 | 0.528 | 0.625 | 12.01 |
| 62) | | 4-Nitroaniline | 0.335 | 0.325 | 0.328 | 0.319 | 0.316 | 0.313 | 0.297 | 0.319 | 3.86 |
| 63) | | Azobenzene | 1.498 | 1.391 | 1.380 | 1.293 | 1.251 | 1.244 | 1.163 | 1.317 | 8.55 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | 0.080 | 0.098 | 0.113 | 0.109 | 0.117 | 0.120 | 0.116 | 0.108 | 13.00 |
| 66) | c | n-Nitrosodiphe... | 0.651 | 0.630 | 0.600 | 0.559 | 0.541 | 0.541 | 0.522 | 0.578 | 8.57 |
| 67) | | 4-Bromophenyl-... | 0.227 | 0.210 | 0.209 | 0.194 | 0.191 | 0.188 | 0.180 | 0.200 | 8.14 |
| 68) | | Hexachlorobenzene | 0.251 | 0.242 | 0.232 | 0.218 | 0.209 | 0.215 | 0.208 | 0.225 | 7.54 |
| 69) | | Atrazine | 0.191 | 0.183 | 0.135 | 0.145 | 0.155 | 0.205 | 0.209 | 0.175 | 17.03 |
| 70) | C | Pentachlorophenol | 0.097 | 0.108 | 0.124 | 0.127 | 0.131 | 0.130 | 0.130 | 0.121 | 10.87 |
| 71) | | Phenanthrene | 1.096 | 1.053 | 0.986 | 0.903 | 0.868 | 0.851 | 0.820 | 0.940 | 11.33 |
| 72) | | Anthracene | 1.071 | 1.018 | 0.966 | 0.889 | 0.860 | 0.839 | 0.803 | 0.921 | 10.81 |
| 73) | | Carbazole | 1.053 | 1.009 | 0.963 | 0.876 | 0.846 | 0.834 | 0.783 | 0.909 | 11.02 |
| 74) | | Di-n-butylphth... | 1.214 | 1.177 | 1.150 | 1.074 | 1.036 | 1.023 | 0.964 | 1.091 | 8.37 |
| 75) | C | Fluoranthene | 1.256 | 1.201 | 1.141 | 1.018 | 0.962 | 0.933 | 0.867 | 1.054 | 13.92 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | | 0.634 | 0.684 | 0.653 | 0.742 | 0.953 | 0.939 | 0.768 | 18.64 |
| 78) | | Pyrene | 1.748 | 1.706 | 1.643 | 1.679 | 1.728 | 1.800 | 1.672 | 1.711 | 3.08 |
| 79) | S | Terphenyl-d14 | 1.226 | 1.185 | 1.108 | 1.123 | 1.139 | 1.190 | 1.093 | 1.152 | 4.26 |
| 80) | | Butylbenzylpht... | 0.640 | 0.638 | 0.654 | 0.690 | 0.670 | 0.681 | 0.628 | 0.657 | 3.56 |
| 81) | | Benzo(a)anthra... | 1.451 | 1.418 | 1.351 | 1.263 | 1.229 | 1.294 | 1.195 | 1.314 | 7.31 |
| 82) | | 3,3'-Dichlorob... | 0.438 | 0.431 | 0.433 | 0.402 | 0.406 | 0.416 | 0.399 | 0.418 | 3.79 |
| 83) | | Chrysene | 1.394 | 1.241 | 1.235 | 1.168 | 1.137 | 1.123 | 1.099 | 1.199 | 8.44 |
| 84) | | Bis(2-ethylhex... | 0.886 | 0.890 | 0.897 | 0.927 | 0.858 | 0.869 | 0.813 | 0.877 | 4.07 |
| 85) | c | Di-n-octyl pht... | 1.231 | 1.217 | 1.270 | 1.290 | 1.187 | 1.241 | 1.212 | 1.235 | 2.86 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.116 | 1.150 | 1.138 | 1.258 | 1.316 | 1.354 | 1.317 | 1.235 | 8.02 |
| 88) | | Benzo(b)fluora... | 1.405 | 1.352 | 1.471 | 1.263 | 1.235 | 1.233 | 1.199 | 1.308 | 7.82 |
| 89) | | Benzo(k)fluora... | 1.286 | 1.241 | 1.120 | 1.060 | 0.952 | 0.935 | 0.888 | 1.069 | 14.47 |
| 90) | C | Benzo(a)pyrene | 1.100 | 1.053 | 1.054 | 1.005 | 0.970 | 0.980 | 0.948 | 1.016 | 5.40 |
| 91) | | Dibenzo(a,h)an... | 0.941 | 0.952 | 0.944 | 1.039 | 1.074 | 1.121 | 1.077 | 1.021 | 7.30 |
| 92) | | Benzo(g,h,i)pe... | 0.941 | 0.963 | 0.954 | 1.063 | 1.122 | 1.146 | 1.120 | 1.044 | 8.55 |

(#) = Out of Range

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



7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4868 SAS No.: P4868 SDG No.: P4868

Instrument ID: BNA_F Calibration Date/Time: 11/20/2024 09:31

Lab File ID: BF140488.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.171 | 1.183 | | 1.0 | |
| Benzaldehyde | 0.951 | 1.434 | | 50.8 | |
| Phenol-d6 | 1.587 | 1.579 | | -0.5 | |
| Phenol | 1.674 | 1.657 | | -1.0 | 20.0 |
| bis(2-Chloroethyl)ether | 1.268 | 1.277 | | 0.7 | |
| 2-Chlorophenol | 1.258 | 1.268 | | 0.8 | |
| 2-Methylphenol | 1.035 | 1.032 | | -0.3 | |
| 2,2-oxybis(1-Chloropropane) | 1.752 | 1.634 | | -6.7 | |
| Acetophenone | 0.465 | 0.469 | | 0.9 | |
| 3+4-Methylphenols | 1.295 | 1.290 | | -0.4 | |
| n-Nitroso-di-n-propylamine | 0.959 | 0.916 | 0.050 | -4.5 | |
| Nitrobenzene-d5 | 0.384 | 0.392 | | 2.1 | |
| Hexachloroethane | 0.520 | 0.535 | | 2.9 | |
| Nitrobenzene | 0.400 | 0.409 | | 2.3 | |
| Isophorone | 0.680 | 0.680 | | 0.0 | |
| 2-Nitrophenol | 0.177 | 0.189 | | 6.8 | 20.0 |
| 2,4-Dimethylphenol | 0.227 | 0.234 | | 3.1 | |
| bis(2-Chloroethoxy)methane | 0.417 | 0.423 | | 1.4 | |
| 2,4-Dichlorophenol | 0.281 | 0.294 | | 4.6 | 20.0 |
| Naphthalene | 1.015 | 1.040 | | 2.5 | |
| 4-Chloroaniline | 0.353 | 0.342 | | -3.1 | |
| Hexachlorobutadiene | 0.199 | 0.209 | | 5.0 | 20.0 |
| Caprolactam | 0.093 | 0.096 | | 3.2 | |
| 4-Chloro-3-methylphenol | 0.311 | 0.322 | | 3.5 | 20.0 |
| 2-Methylnaphthalene | 0.651 | 0.663 | | 1.8 | |
| Hexachlorocyclopentadiene | 0.142 | 0.127 | 0.050 | -10.6 | |
| 2,4,6-Trichlorophenol | 0.363 | 0.377 | | 3.9 | 20.0 |
| 2-Fluorobiphenyl | 1.244 | 1.282 | | 3.1 | |
| 2,4,5-Trichlorophenol | 0.397 | 0.418 | | 5.3 | |
| 1,1-Biphenyl | 1.455 | 1.501 | | 3.2 | |
| 2-Chloronaphthalene | 1.108 | 1.144 | | 3.2 | |
| 2-Nitroaniline | 0.368 | 0.375 | | 1.9 | |
| Dimethylphthalate | 1.304 | 1.342 | | 2.9 | |
| Acenaphthylene | 1.677 | 1.721 | | 2.6 | |
| 2,6-Dinitrotoluene | 0.297 | 0.314 | | 5.7 | |
| 3-Nitroaniline | 0.312 | 0.318 | | 1.9 | |
| Acenaphthene | 1.133 | 1.176 | | 3.8 | 20.0 |
| 2,4-Dinitrophenol | 0.153 | 0.154 | 0.050 | 0.7 | |
| 4-Nitrophenol | 0.228 | 0.216 | 0.050 | -5.3 | |

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4868 SAS No.: P4868 SDG No.: P4868

Instrument ID: BNA_F Calibration Date/Time: 11/20/2024 09:31

Lab File ID: BF140488.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.603 | 1.638 | | 2.2 | |
| 2,4-Dinitrotoluene | 0.391 | 0.410 | | 4.9 | |
| Diethylphthalate | 1.333 | 1.357 | | 1.8 | |
| 4-Chlorophenyl-phenylether | 0.625 | 0.650 | | 4.0 | |
| Fluorene | 1.267 | 1.310 | | 3.4 | |
| 4-Nitroaniline | 0.319 | 0.317 | | -0.6 | |
| 4,6-Dinitro-2-methylphenol | 0.108 | 0.121 | | 12.0 | |
| n-Nitrosodiphenylamine | 0.578 | 0.600 | | 3.8 | 20.0 |
| 2,4,6-Tribromophenol | 0.199 | 0.210 | | 5.5 | |
| 4-Bromophenyl-phenylether | 0.200 | 0.207 | | 3.5 | |
| Hexachlorobenzene | 0.225 | 0.237 | | 5.3 | |
| Atrazine | 0.175 | 0.161 | | -8.0 | |
| Pentachlorophenol | 0.121 | 0.122 | | 0.8 | 20.0 |
| Phenanthrene | 0.940 | 0.958 | | 1.9 | |
| Anthracene | 0.921 | 0.940 | | 2.1 | |
| Carbazole | 0.909 | 0.919 | | 1.1 | |
| Di-n-butylphthalate | 1.091 | 1.108 | | 1.6 | |
| Fluoranthene | 1.054 | 1.040 | | -1.3 | 20.0 |
| Pyrene | 1.711 | 1.993 | | 16.5 | |
| Terphenyl-d14 | 1.152 | 1.323 | | 14.8 | |
| Butylbenzylphthalate | 0.657 | 0.733 | | 11.6 | |
| 3,3-Dichlorobenzidine | 0.418 | 0.425 | | 1.7 | |
| Benzo(a)anthracene | 1.314 | 1.367 | | 4.0 | |
| Chrysene | 1.199 | 1.229 | | 2.5 | |
| Bis(2-ethylhexyl)phthalate | 0.877 | 0.895 | | 2.1 | |
| Di-n-octyl phthalate | 1.235 | 1.193 | | -3.4 | 20.0 |
| Benzo(b)fluoranthene | 1.308 | 1.186 | | -9.3 | |
| Benzo(k)fluoranthene | 1.069 | 1.134 | | 6.1 | |
| Benzo(a)pyrene | 1.016 | 1.047 | | 3.1 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.235 | 1.428 | | 15.6 | |
| Dibenzo(a,h)anthracene | 1.021 | 1.170 | | 14.6 | |
| Benzo(g,h,i)perylene | 1.044 | 1.208 | | 15.7 | |
| 1,2,4,5-Tetrachlorobenzene | 0.553 | 0.581 | | 5.1 | |
| 1,4-Dioxane | 0.522 | 0.523 | | 0.2 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.313 | 0.321 | | 2.6 | |

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4868 SAS No.: P4868 SDG No.: P4868

Instrument ID: BNA_F Calibration Date/Time: 11/20/2024 14:34

Lab File ID: BF140499.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 09:01 12:48

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.171 | 1.177 | | 0.5 | 50.0 |
| Benzaldehyde | 0.951 | 1.385 | | 45.6 | 50.0 |
| Phenol-d6 | 1.587 | 1.558 | | -1.8 | 50.0 |
| Phenol | 1.674 | 1.601 | | -4.4 | 50.0 |
| bis(2-Chloroethyl)ether | 1.268 | 1.301 | | 2.6 | 50.0 |
| 2-Chlorophenol | 1.258 | 1.255 | | -0.2 | 50.0 |
| 2-Methylphenol | 1.035 | 1.015 | | -1.9 | 50.0 |
| 2,2-oxybis(1-Chloropropane) | 1.752 | 1.576 | | -10.0 | 50.0 |
| Acetophenone | 0.465 | 0.475 | | 2.2 | 50.0 |
| 3+4-Methylphenols | 1.295 | 1.265 | | -2.3 | 50.0 |
| n-Nitroso-di-n-propylamine | 0.959 | 0.897 | 0.050 | -6.5 | 50.0 |
| Nitrobenzene-d5 | 0.384 | 0.399 | | 3.9 | 50.0 |
| Hexachloroethane | 0.520 | 0.523 | | 0.6 | 50.0 |
| Nitrobenzene | 0.400 | 0.412 | | 3.0 | 50.0 |
| Isophorone | 0.680 | 0.686 | | 0.9 | 50.0 |
| 2-Nitrophenol | 0.177 | 0.191 | | 7.9 | 50.0 |
| 2,4-Dimethylphenol | 0.227 | 0.237 | | 4.4 | 50.0 |
| bis(2-Chloroethoxy)methane | 0.417 | 0.422 | | 1.2 | 50.0 |
| 2,4-Dichlorophenol | 0.281 | 0.298 | | 6.1 | 50.0 |
| Naphthalene | 1.015 | 1.040 | | 2.5 | 50.0 |
| 4-Chloroaniline | 0.353 | 0.232 | | -34.3 | 50.0 |
| Hexachlorobutadiene | 0.199 | 0.208 | | 4.5 | 50.0 |
| Caprolactam | 0.093 | 0.096 | | 3.2 | 50.0 |
| 4-Chloro-3-methylphenol | 0.311 | 0.321 | | 3.2 | 50.0 |
| 2-Methylnaphthalene | 0.651 | 0.658 | | 1.1 | 50.0 |
| Hexachlorocyclopentadiene | 0.142 | 0.132 | 0.050 | -7.0 | 50.0 |
| 2,4,6-Trichlorophenol | 0.363 | 0.380 | | 4.7 | 50.0 |
| 2-Fluorobiphenyl | 1.244 | 1.256 | | 1.0 | 50.0 |
| 2,4,5-Trichlorophenol | 0.397 | 0.417 | | 5.0 | 50.0 |
| 1,1-Biphenyl | 1.455 | 1.469 | | 1.0 | 50.0 |
| 2-Chloronaphthalene | 1.108 | 1.126 | | 1.6 | 50.0 |
| 2-Nitroaniline | 0.368 | 0.373 | | 1.4 | 50.0 |
| Dimethylphthalate | 1.304 | 1.328 | | 1.8 | 50.0 |
| Acenaphthylene | 1.677 | 1.715 | | 2.3 | 50.0 |
| 2,6-Dinitrotoluene | 0.297 | 0.308 | | 3.7 | 50.0 |
| 3-Nitroaniline | 0.312 | 0.310 | | -0.6 | 50.0 |
| Acenaphthene | 1.133 | 1.182 | | 4.3 | 50.0 |
| 2,4-Dinitrophenol | 0.153 | 0.170 | 0.050 | 11.1 | 50.0 |
| 4-Nitrophenol | 0.228 | 0.215 | 0.050 | -5.7 | 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.: P4868 SAS No.: P4868 SDG No.: P4868

Instrument ID: BNA_F Calibration Date/Time: 11/20/2024 14:34

Lab File ID: BF140499.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 09:01 12:48

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.603 | 1.639 | | 2.2 | 50.0 |
| 2,4-Dinitrotoluene | 0.391 | 0.412 | | 5.4 | 50.0 |
| Diethylphthalate | 1.333 | 1.338 | | 0.4 | 50.0 |
| 4-Chlorophenyl-phenylether | 0.625 | 0.636 | | 1.8 | 50.0 |
| Fluorene | 1.267 | 1.285 | | 1.4 | 50.0 |
| 4-Nitroaniline | 0.319 | 0.311 | | -2.5 | 50.0 |
| 4,6-Dinitro-2-methylphenol | 0.108 | 0.126 | | 16.7 | 50.0 |
| n-Nitrosodiphenylamine | 0.578 | 0.597 | | 3.3 | 50.0 |
| 2,4,6-Tribromophenol | 0.199 | 0.208 | | 4.5 | 50.0 |
| 4-Bromophenyl-phenylether | 0.200 | 0.210 | | 5.0 | 50.0 |
| Hexachlorobenzene | 0.225 | 0.235 | | 4.4 | 50.0 |
| Atrazine | 0.175 | 0.154 | | -12.0 | 50.0 |
| Pentachlorophenol | 0.121 | 0.119 | | -1.7 | 50.0 |
| Phenanthrene | 0.940 | 0.960 | | 2.1 | 50.0 |
| Anthracene | 0.921 | 0.945 | | 2.6 | 50.0 |
| Carbazole | 0.909 | 0.928 | | 2.1 | 50.0 |
| Di-n-butylphthalate | 1.091 | 1.108 | | 1.6 | 50.0 |
| Fluoranthene | 1.054 | 1.050 | | -0.4 | 50.0 |
| Pyrene | 1.711 | 1.890 | | 10.5 | 50.0 |
| Terphenyl-d14 | 1.152 | 1.256 | | 9.0 | 50.0 |
| Butylbenzylphthalate | 0.657 | 0.713 | | 8.5 | 50.0 |
| 3,3-Dichlorobenzidine | 0.418 | 0.374 | | -10.5 | 50.0 |
| Benzo(a)anthracene | 1.314 | 1.385 | | 5.4 | 50.0 |
| Chrysene | 1.199 | 1.203 | | 0.3 | 50.0 |
| Bis(2-ethylhexyl)phthalate | 0.877 | 0.913 | | 4.1 | 50.0 |
| Di-n-octyl phthalate | 1.235 | 1.267 | | 2.6 | 50.0 |
| Benzo(b)fluoranthene | 1.308 | 1.245 | | -4.8 | 50.0 |
| Benzo(k)fluoranthene | 1.069 | 1.104 | | 3.3 | 50.0 |
| Benzo(a)pyrene | 1.016 | 1.045 | | 2.9 | 50.0 |
| Indeno(1,2,3-cd)pyrene | 1.235 | 1.280 | | 3.6 | 50.0 |
| Dibenzo(a,h)anthracene | 1.021 | 1.063 | | 4.1 | 50.0 |
| Benzo(g,h,i)perylene | 1.044 | 1.081 | | 3.5 | 50.0 |
| 1,2,4,5-Tetrachlorobenzene | 0.553 | 0.573 | | 3.6 | 50.0 |
| 1,4-Dioxane | 0.522 | 0.528 | | 1.1 | 50.0 |
| 2,3,4,6-Tetrachlorophenol | 0.313 | 0.324 | | 3.5 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4868 | **OrderDate:** | 11/14/2024 3:41:00 PM |
| **Client:** | Tetra Tech NUS, Inc. | **Project:** | CTO WE13 |
| **Contact:** | Ernie Wu | **Location:** | L41 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4868-01** | **RW5-SP100-20241114** | **Water** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 11/15/24 | 11/21/24 | |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/20/24 | |
| **P4868-02** | **RW5-SP201-20241114** | **Water** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 11/15/24 | 11/21/24 | |
| **P4868-03** | **RW5-SP303-20241114** | **Water** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 11/15/24 | 11/21/24 | |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/20/24 | |
| **P4868-03RE** | **RW5-SP303-20241114RE** | **Water** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/20/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4868

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

| Sample ID | Client ID | | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID : RW5-SP100-20241114** | | | | | | | | | |
| P4868-01 | RW5-SP100-20241114 | WATER | 1,4-Dioxane | 9.700 | | 0.34 | 1 | 1 | ug/L |
| | | | **Total Svoc :** | | | **9.70** | | | |
| | | | **Total Concentration:** | | | **9.70** | | | |
| **Client ID : RW5-SP201-20241114** | | | | | | | | | |
| P4868-02 | RW5-SP201-20241114 | WATER | 1,4-Dioxane | 0.150 | J | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.15** | | | |
| | | | **Total Concentration:** | | | **0.15** | | | |
| **Client ID : RW5-SP303-20241114** | | | | | | | | | |
| P4868-03 | RW5-SP303-20241114 | WATER | 1,4-Dioxane | 0.100 | J | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.10** | | | |
| | | | **Total Concentration:** | | | **0.10** | | | |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP100-20241114 | SDG No.: | P4868 |
| Lab Sample ID: | P4868-01 | Matrix: | Water |
| Analytical Method: | SW8270SIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035222.D | 5 | 11/15/24 12:05 | 11/21/24 15:12 | PB165012 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 9.70 | | 0.34 | 1.00 | 1.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.30 | | 30 - 150 | | 74% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.35 | | 30 - 150 | | 88% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.19 | * | 55 - 111 | | 46% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.28 | | 53 - 106 | | 69% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 1.76 | * | 58 - 132 | | 441% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2550 | 7.329 | | | | |
| 1146-65-2 | Naphthalene-d8 | 5910 | 10.073 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4010 | 13.987 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 8980 | 16.746 | | | | |
| 1719-03-5 | Chrysene-d12 | 1830 | 21.008 | | | | |
| 1520-96-3 | Perylene-d12 | 5240 | 23.104 | | | | |

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

Alliance TECHNICAL GROUP
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP201-20241114 | SDG No.: | P4868 |
| Lab Sample ID: | P4868-02 | Matrix: | Water |
| Analytical Method: | SW8270SIM | % Solid: | 0 |
| Sample Wt/Vol: | 990 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035221.D | 1 | 11/15/24 12:05 | 11/21/24 14:35 | PB165012 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.15 | J | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.28 | | 30 - 150 | | 69% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.15 | | 30 - 150 | | 38% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.25 | | 55 - 111 | | 63% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.35 | | 53 - 106 | | 88% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 14.9 | * | 58 - 132 | | 3736% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3000 | 7.329 | | | | |
| 1146-65-2 | Naphthalene-d8 | 6730 | 10.073 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 1730 | 13.983 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 6280 | 16.753 | | | | |
| 1719-03-5 | Chrysene-d12 | 144 | 21.006 | | | | |
| 1520-96-3 | Perylene-d12 | 16.0 | 23.102 | | | | |

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: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP303-20241114 | SDG No.: | P4868 |
| Lab Sample ID: | P4868-03 | Matrix: | Water |
| Analytical Method: | SW8270SIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035224.D | 1 | 11/15/24 12:05 | 11/21/24 16:24 | PB165012 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.10 | J | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.34 | | 30 - 150 | | 84% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.23 | | 30 - 150 | | 57% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.24 | | 55 - 111 | | 61% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.15 | * | 53 - 106 | | 38% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 2.71 | * | 58 - 132 | | 677% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2790 | 7.329 | | | | |
| 1146-65-2 | Naphthalene-d8 | 6600 | 10.073 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2230 | 13.987 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 7430 | 16.746 | | | | |
| 1719-03-5 | Chrysene-d12 | 966 | 21.008 | | | | |
| 1520-96-3 | Perylene-d12 | 110 | 23.107 | | | | |

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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Fax : 908 789 8922



# Surrogate Summary

**SW-846**

**SDG No.:** P4868

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

**Analytical Method:** 8270-Modified

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P4868-01 | RW5-SP100-20241114 | 2-Methylnaphthalene-d10 | 0.4 | 0.30 | 74 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.35 | 88 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.19 | 46 | * | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.28 | 69 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 1.76 | 441 | * | 58 | 132 |
| P4868-02 | RW5-SP201-20241114 | 2-Methylnaphthalene-d10 | 0.4 | 0.28 | 69 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.15 | 38 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.25 | 63 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.35 | 88 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 14.9 | 3736 | * | 58 | 132 |
| P4868-03 | RW5-SP303-20241114 | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 84 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.23 | 57 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.24 | 61 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.15 | 38 | * | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 2.71 | 677 | * | 58 | 132 |
| PB165012BL | PB165012BL | 2-Methylnaphthalene-d10 | 0.4 | 0.36 | 90 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.33 | 83 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.28 | 69 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.17 | 42 | * | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 1.29 | 323 | * | 58 | 132 |
| PB165012BS | PB165012BS | 2-Methylnaphthalene-d10 | 0.4 | 0.33 | 82 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.26 | 66 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.22 | 56 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.086 | 22 | * | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 2.22 | 556 | * | 58 | 132 |
| PB165012BSD | PB165012BSD | 2-Methylnaphthalene-d10 | 0.4 | 0.35 | 87 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.30 | 76 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.24 | 60 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.075 | 19 | * | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 2.27 | 567 | * | 58 | 132 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4868

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

**Analytical Method:** 8270-Modified **DataFile:** BN035226.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB165012BS | 1,4-Dioxane | 0.4 | 0.38 | ug/L | 95 | | | | 70 | 130 | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4868

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

**Analytical Method:** 8270-Modified **DataFile:** BN035227.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB165012BSD | 1,4-Dioxane | 0.4 | 0.39 | ug/L | 98 | 3 | | | 70 | 130 | 20 |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165012BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4868 SAS No.: P4868 SDG NO.: P4868

Lab File ID: BN035220.D Lab Sample ID: PB165012BL

Instrument ID: BNA_N Date Extracted: 11/15/2024

Matrix: (soil/water) Water Date Analyzed: 11/21/2024

Level: (low/med) LOW Time Analyzed: 13:58

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| RW5-SP303-20241114 | P4868-03 | BN035224.D | 11/21/2024 |
| PB165012BS | PB165012BS | BN035226.D | 11/21/2024 |
| PB165012BSD | PB165012BSD | BN035227.D | 11/21/2024 |
| RW5-SP100-20241114 | P4868-01 | BN035222.D | 11/21/2024 |
| RW5-SP201-20241114 | P4868-02 | BN035221.D | 11/21/2024 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P4868 SDG NO.: P4868

Lab File ID: BN035061.D DFTPP Injection Date: 11/13/2024

Instrument ID: BNA_N DFTPP Injection Time: 12:01

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 19.6 |
| 68 | Less than 2.0% of mass 69 | 0.4 ( 1.4 ) 1 |
| 69 | Mass 69 relative abundance | 29.1 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.7 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 35.9 |
| 197 | Less than 2.0% of mass 198 | 0.2 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 27.6 |
| 365 | Greater than 1% of mass 198 | 4.4 |
| 441 | Present, but less than mass 443 | 9.3 |
| 442 | Greater than 50% of mass 198 | 59.1 |
| 443 | 15.0 - 24.0% of mass 442 | 11.2 ( 19 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC0.1 | SSTDICC0.1 | BN035062.D | 11/13/2024 | 12:40 |
| SSTDICC0.2 | SSTDICC0.2 | BN035063.D | 11/13/2024 | 13:16 |
| SSTDICCC0.4 | SSTDICCC0.4 | BN035064.D | 11/13/2024 | 13:52 |
| SSTDICC0.8 | SSTDICC0.8 | BN035065.D | 11/13/2024 | 14:28 |
| SSTDICC1.6 | SSTDICC1.6 | BN035066.D | 11/13/2024 | 15:04 |
| SSTDICC3.2 | SSTDICC3.2 | BN035067.D | 11/13/2024 | 15:39 |
| SSTDICC5.0 | SSTDICC5.0 | BN035068.D | 11/13/2024 | 16:15 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P4868 SDG NO.: P4868

Lab File ID: BN035218.D DFTPP Injection Date: 11/21/2024

Instrument ID: BNA_N DFTPP Injection Time: 12:43

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 23.4 |
| 68 | Less than 2.0% of mass 69 | 0.0 ( 0.0 ) 1 |
| 69 | Mass 69 relative abundance | 30.3 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 40 |
| 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 | 6.5 |
| 275 | 10.0 - 60.0% of mass 198 | 27.6 |
| 365 | Greater than 1% of mass 198 | 4.2 |
| 441 | Present, but less than mass 443 | 11.3 |
| 442 | Greater than 50% of mass 198 | 68.4 |
| 443 | 15.0 - 24.0% of mass 442 | 12.7 (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 |
|---|---|---|---|---|
| SSTDCCC0.4 | SSTDCCC0.4 | BN035219.D | 11/21/2024 | 13:22 |
| PB165012BL | PB165012BL | BN035220.D | 11/21/2024 | 13:58 |
| RW5-SP201-20241114 | P4868-02 | BN035221.D | 11/21/2024 | 14:35 |
| RW5-SP100-20241114 | P4868-01 | BN035222.D | 11/21/2024 | 15:12 |
| RW5-SP303-20241114 | P4868-03 | BN035224.D | 11/21/2024 | 16:24 |
| PB165012BS | PB165012BS | BN035226.D | 11/21/2024 | 17:36 |
| PB165012BSD | PB165012BSD | BN035227.D | 11/21/2024 | 18:12 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN035235.D | 11/21/2024 | 23:01 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4868 SAS No.: P4868 SDG NO.: P4868

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/21/2024

Lab File ID: BN035219.D Time Analyzed: 13:22

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | | RT # |
|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 3553 | 7.329 | 8594 | 10.07 | 5839 | | 13.99 |
| | UPPER LIMIT | 7106 | 7.829 | 17188 | 10.573 | 11678 | | 14.487 |
| | LOWER LIMIT | 1776.5 | 6.829 | 4297 | 9.573 | 2919.5 | | 13.487 |
| | EPA SAMPLE NO. | | | | | | | |
| 01 | PB165012BL | 3644 | 7.33 | 8156 | 10.07 | 4996 | | 13.98 |
| 02 | RW5-SP201-20241114 | 2998 | 7.33 | 6728 | 10.07 | 1733 | * | 13.98 |
| 03 | RW5-SP100-20241114 | 2554 | 7.33 | 5906 | 10.07 | 4010 | | 13.99 |
| 04 | RW5-SP303-20241114 | 2785 | 7.33 | 6599 | 10.07 | 2228 | * | 13.99 |
| 05 | PB165012BS | 3340 | 7.33 | 7691 | 10.07 | 4263 | | 13.99 |
| 06 | PB165012BSD | 3072 | 7.33 | 6967 | 10.07 | 4025 | | 13.98 |

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.: P4868 SAS No.: P4868 SDG NO.: P4868

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/21/2024

Lab File ID: BN035219.D Time Analyzed: 13:22

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

| | | IS4 (PHN) AREA # | | RT # | IS5 (CRY) AREA # | | RT # | IS6 (PRY) AREA # | | RT # |
|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 13132 | | 16.746 | 2179 | | 21.008 | 7936 | | 23.104 |
| | UPPER LIMIT | 26264 | | 17.246 | 4358 | | 21.508 | 15872 | | 23.604 |
| | LOWER LIMIT | 6566 | | 16.246 | 1089.5 | | 20.508 | 3968 | | 22.604 |
| | EPA SAMPLE NO. | | | | | | | | | |
| 01 | PB165012BL | 10325 | | 16.75 | 2547 | | 21.01 | 7086 | | 23.11 |
| 02 | RW5-SP201-20241114 | 6277 | * | 16.75 | 144 | * | 21.01 | 16 | * | 23.10 |
| 03 | RW5-SP100-20241114 | 8978 | | 16.75 | 1826 | | 21.01 | 5244 | | 23.10 |
| 04 | RW5-SP303-20241114 | 7426 | | 16.75 | 966 | * | 21.01 | 110 | * | 23.11 |
| 05 | PB165012BS | 8289 | | 16.75 | 1030 | * | 21.01 | 1173 | * | 23.10 |
| 06 | PB165012BSD | 7680 | | 16.75 | 1000 | * | 21.01 | 3421 | * | 23.10 |

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: | CTO WE13 | Date Received: | |
| Client Sample ID: | PB165012BL | SDG No.: | P4868 |
| Lab Sample ID: | PB165012BL | Matrix: | Water |
| Analytical Method: | SW8270SIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035220.D | 1 | 11/15/24 12:05 | 11/21/24 13:58 | PB165012 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.36 | | 30 - 150 | | 90% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.33 | | 30 - 150 | | 83% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.28 | | 55 - 111 | | 69% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.17 | * | 53 - 106 | | 42% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 1.29 | * | 58 - 132 | | 323% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3640 | 7.329 | | | | |
| 1146-65-2 | Naphthalene-d8 | 8160 | 10.073 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 5000 | 13.983 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 10300 | 16.753 | | | | |
| 1719-03-5 | Chrysene-d12 | 2550 | 21.006 | | | | |
| 1520-96-3 | Perylene-d12 | 7090 | 23.105 | | | | |

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: | CTO WE13 | | | Date Received: | |
| Client Sample ID: | PB165012BS | | | SDG No.: | P4868 |
| Lab Sample ID: | PB165012BS | | | Matrix: | Water |
| Analytical Method: | SW8270SIM | | | % Solid: | 0 |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3510C | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035226.D | 1 | 11/15/24 12:05 | 11/21/24 17:36 | PB165012 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.38 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.33 | | 30 - 150 | | 82% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.26 | | 30 - 150 | | 66% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.22 | | 55 - 111 | | 56% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.086 | * | 53 - 106 | | 22% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 2.22 | * | 58 - 132 | | 556% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3340 | 7.329 | | | | |
| 1146-65-2 | Naphthalene-d8 | 7690 | 10.073 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4260 | 13.986 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 8290 | 16.746 | | | | |
| 1719-03-5 | Chrysene-d12 | 1030 | 21.008 | | | | |
| 1520-96-3 | Perylene-d12 | 1170 | 23.101 | | | | |

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: | CTO WE13 | | | Date Received: | |
| Client Sample ID: | PB165012BSD | | | SDG No.: | P4868 |
| Lab Sample ID: | PB165012BSD | | | Matrix: | Water |
| Analytical Method: | SW8270SIM | | | % Solid: | 0 |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3510C | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035227.D | 1 | 11/15/24 12:05 | 11/21/24 18:12 | PB165012 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.39 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.35 | | 30 - 150 | | 87% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.30 | | 30 - 150 | | 76% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.24 | | 55 - 111 | | 60% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.075 | * | 53 - 106 | | 19% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 2.27 | * | 58 - 132 | | 567% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3070 | 7.329 | | | | |
| 1146-65-2 | Naphthalene-d8 | 6970 | 10.073 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4030 | 13.976 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 7680 | 16.746 | | | | |
| 1719-03-5 | Chrysene-d12 | 1000 | 21.008 | | | | |
| 1520-96-3 | Perylene-d12 | 3420 | 23.098 | | | | |

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

# CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 17:18:14 2024
Response Via : Initial Calibration

Calibration Files
0.1 =BN035062.D 0.2 =BN035063.D 0.4 =BN035064.D 0.8 =BN035065.D 1.6 =BN035066.D 3.2 =BN035067.D 5.0 =BN035068.D

| | | Compound | 0.1 | 0.2 | 0.4 | 0.8 | 1.6 | 3.2 | 5.0 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | |
| 2) | | 1,4-Dioxane | 0.410 | 0.382 | 0.335 | 0.371 | 0.367 | 0.348 | 0.329 | 0.363 | 7.76 |
| 3) | | n-Nitrosodimet... | 0.366 | 0.328 | 0.326 | 0.360 | 0.347 | 0.321 | 0.322 | 0.339 | 5.51 |
| 4) | S | 2-Fluorophenol | 1.073 | 1.039 | 0.949 | 1.086 | 1.034 | 0.966 | 0.961 | 1.015 | 5.54 |
| 5) | S | Phenol-d6 | 1.264 | 1.279 | 1.159 | 1.355 | 1.318 | 1.255 | 1.282 | 1.273 | 4.79 |
| 6) | | bis(2-Chloroet... | 0.972 | 0.949 | 0.893 | 1.027 | 0.995 | 0.925 | 0.929 | 0.956 | 4.77 |
| 7) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | |
| 8) | S | Nitrobenzene-d5 | 0.358 | 0.338 | 0.320 | 0.368 | 0.356 | 0.344 | 0.353 | 0.348 | 4.53 |
| 9) | | Naphthalene | 1.088 | 1.009 | 0.977 | 1.116 | 1.085 | 1.010 | 1.027 | 1.044 | 4.96 |
| 10) | | Hexachlorobuta... | 0.324 | 0.305 | 0.293 | 0.326 | 0.315 | 0.289 | 0.291 | 0.306 | 5.12 |
| 11) | SURR | 2-Methylnaphth... | 0.694 | 0.683 | 0.664 | 0.762 | 0.753 | 0.703 | 0.731 | 0.713 | 5.13 |
| 12) | | 2-Methylnaphth... | 0.742 | 0.748 | 0.711 | 0.823 | 0.815 | 0.765 | 0.789 | 0.770 | 5.29 |
| 13) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 14) | S | 2,4,6-Tribromo... | 0.281 | 0.262 | 0.240 | 0.300 | 0.299 | 0.308 | 0.331 | 0.289 | 10.57 |
| 15) | S | 2-Fluorobiphenyl | 1.701 | 1.576 | 1.460 | 1.735 | 1.687 | 1.599 | 1.614 | 1.624 | 5.73 |
| 16) | | Acenaphthylene | 1.715 | 1.616 | 1.488 | 1.822 | 1.775 | 1.756 | 1.795 | 1.709 | 6.93 |
| 17) | | Acenaphthene | 1.129 | 1.079 | 1.000 | 1.202 | 1.157 | 1.130 | 1.146 | 1.120 | 5.76 |
| 18) | | Fluorene | 1.704 | 1.591 | 1.463 | 1.755 | 1.708 | 1.656 | 1.659 | 1.648 | 5.86 |
| 19) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 20) | | 4,6-Dinitro-2-... | 0.068 | 0.067 | 0.073 | 0.087 | 0.088 | 0.095 | 0.105 | 0.083 | 17.50 |
| 21) | | 4-Bromophenyl-... | 0.256 | 0.240 | 0.246 | 0.272 | 0.267 | 0.252 | 0.252 | 0.255 | 4.41 |
| 22) | | Hexachlorobenzene | 0.275 | 0.259 | 0.253 | 0.277 | 0.273 | 0.258 | 0.258 | 0.264 | 3.79 |
| 23) | | Atrazine | 0.227 | 0.227 | 0.217 | 0.244 | 0.238 | 0.223 | 0.225 | 0.229 | 3.95 |
| 24) | | Pentachlorophenol | 0.106 | 0.101 | 0.104 | 0.130 | 0.130 | 0.141 | 0.154 | 0.124 | 16.69 |
| 25) | | Phenanthrene | 1.069 | 1.013 | 1.004 | 1.115 | 1.096 | 1.034 | 1.036 | 1.053 | 3.97 |
| 26) | | Anthracene | 0.917 | 0.904 | 0.920 | 1.024 | 1.016 | 0.986 | 1.001 | 0.967 | 5.32 |
| 27) | SURR | Fluoranthene-d10 | 1.196 | 1.178 | 1.169 | 1.288 | 1.284 | 1.222 | 1.240 | 1.225 | 3.91 |
| 28) | | Fluoranthene | 1.396 | 1.376 | 1.386 | 1.543 | 1.527 | 1.453 | 1.453 | 1.448 | 4.63 |
| 29) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 30) | | Pyrene | 1.339 | 1.290 | 1.288 | 1.424 | 1.367 | 1.301 | 1.317 | 1.332 | 3.70 |
| 31) | S | Terphenyl-d14 | 0.838 | 0.819 | 0.810 | 0.894 | 0.867 | 0.817 | 0.831 | 0.839 | 3.63 |
| 32) | | Benzo(a)anthra... | 1.421 | 1.368 | 1.328 | 1.464 | 1.416 | 1.355 | 1.396 | 1.393 | 3.31 |
| 33) | | Chrysene | 1.409 | 1.366 | 1.332 | 1.479 | 1.420 | 1.331 | 1.321 | 1.380 | 4.27 |
| 34) | | Bis(2-ethylhex... | 0.809 | 0.753 | 0.647 | 0.768 | 0.702 | 0.693 | 0.742 | 0.731 | 7.38 |
| 35) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | | |

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN111324.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 36) | | Indeno(1,2,3-c... | 1.609 | 1.515 | 1.522 | 1.730 | 1.659 | 1.550 | 1.585 | 1.596 | 4.88 |
| 37) | | Benzo(b)fluora... | 1.326 | 1.272 | 1.279 | 1.439 | 1.418 | 1.327 | 1.359 | 1.346 | 4.77 |
| 38) | | Benzo(k)fluora... | 1.342 | 1.288 | 1.287 | 1.418 | 1.410 | 1.323 | 1.358 | 1.347 | 3.94 |
| 39) | C | Benzo(a)pyrene | 1.172 | 1.134 | 1.123 | 1.247 | 1.240 | 1.167 | 1.207 | 1.184 | 4.12 |
| 40) | | Dibenzo(a,h)an... | 1.248 | 1.195 | 1.210 | 1.375 | 1.322 | 1.235 | 1.265 | 1.264 | 5.06 |
| 41) | | Benzo(g,h,i)pe... | 1.380 | 1.288 | 1.286 | 1.452 | 1.386 | 1.294 | 1.328 | 1.345 | 4.71 |

(#) = Out of Range

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Fax : 908 789 8922



7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4868 SAS No.: P4868 SDG No.: P4868

Instrument ID: BNA_N Calibration Date/Time: 11/21/2024 13:22

Lab File ID: BN035219.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:40 16:15

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.713 | 0.604 | | -15.3 | 20.0 |
| Fluoranthene-d10 | 1.225 | 0.956 | | -22.0 | 20.0 |
| 2-Fluorophenol | 1.015 | 1.174 | | 15.7 | 20.0 |
| Phenol-d6 | 1.273 | 1.472 | | 15.6 | 20.0 |
| Nitrobenzene-d5 | 0.348 | 0.208 | | -40.2 | 20.0 |
| 2-Fluorobiphenyl | 1.624 | 0.299 | | -81.6 | 20.0 |
| 2,4,6-Tribromophenol | 0.289 | 0.331 | | 14.5 | 20.0 |
| Terphenyl-d14 | 0.839 | 3.629 | | 332.5 | 20.0 |
| 1,4-Dioxane | 0.363 | 0.403 | | 11.0 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4868 SAS No.: P4868 SDG No.: P4868

Instrument ID: BNA_N Calibration Date/Time: 11/21/2024 23:01

Lab File ID: BN035235.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:40 16:15

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.713 | 0.581 | | -18.5 | 50.0 |
| Fluoranthene-d10 | 1.225 | 0.987 | | -19.4 | 50.0 |
| 2-Fluorophenol | 1.015 | 1.087 | | 7.1 | 50.0 |
| Phenol-d6 | 1.273 | 1.273 | | 0.0 | 50.0 |
| Nitrobenzene-d5 | 0.348 | 0.189 | | -45.7 | 50.0 |
| 2-Fluorobiphenyl | 1.624 | 0.255 | | -84.3 | 50.0 |
| 2,4,6-Tribromophenol | 0.289 | 0.242 | | -16.3 | 50.0 |
| Terphenyl-d14 | 0.839 | 6.857 | | 717.3 | 50.0 |
| 1,4-Dioxane | 0.363 | 0.381 | | 5.0 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4868 | **OrderDate:** | 11/14/2024 3:41:00 PM |
| **Client:** | Tetra Tech NUS, Inc. | **Project:** | CTO WE13 |
| **Contact:** | Ernie Wu | **Location:** | L41 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4868-01** | **RW5-SP100-20241114** | **Water** | | | **11/14/24** | | | **11/14/24** |
| | | | Mercury | 7470A | | 11/18/24 | 11/18/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/15/24 | 11/18/24 | |
| **P4868-03** | **RW5-SP303-20241114** | **Water** | | | **11/14/24** | | | **11/14/24** |
| | | | Mercury | 7470A | | 11/18/24 | 11/18/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/15/24 | 11/18/24 | |

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Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** P4868 **Order ID:** P4868

**Client:** Tetra Tech NUS, Inc. **Project ID:** CTO WE13

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID : RW5-SP100-20241114** | | | | | | | | | |
| P4868-01 | RW5-SP100-20241114 | Water | Calcium | 3290 | | 33.0 | 250 | 1000 | ug/L |
| P4868-01 | RW5-SP100-20241114 | Water | Chromium | 1.94 | J | 0.66 | 2.50 | 5.00 | ug/L |
| P4868-01 | RW5-SP100-20241114 | Water | Cobalt | 2.82 | J | 0.50 | 3.75 | 15.0 | ug/L |
| P4868-01 | RW5-SP100-20241114 | Water | Iron | 1210 | | 18.5 | 40.0 | 50.0 | ug/L |
| P4868-01 | RW5-SP100-20241114 | Water | Lead | 6.72 | | 3.51 | 4.80 | 6.00 | ug/L |
| P4868-01 | RW5-SP100-20241114 | Water | Magnesium | 1320 | | 39.4 | 250 | 1000 | ug/L |
| P4868-01 | RW5-SP100-20241114 | Water | Manganese | 20.0 | | 1.46 | 2.50 | 10.0 | ug/L |
| P4868-01 | RW5-SP100-20241114 | Water | Nickel | 4.70 | J | 0.85 | 5.00 | 20.0 | ug/L |
| P4868-01 | RW5-SP100-20241114 | Water | Sodium | 10800 | | 237 | 500 | 1000 | ug/L |
| P4868-01 | RW5-SP100-20241114 | Water | Zinc | 14.8 | J | 1.75 | 5.00 | 20.0 | ug/L |
| **Client ID : RW5-SP303-20241114** | | | | | | | | | |
| P4868-03 | RW5-SP303-20241114 | Water | Calcium | 4720 | | 33.0 | 250 | 1000 | ug/L |
| P4868-03 | RW5-SP303-20241114 | Water | Chromium | 4.33 | J | 0.66 | 2.50 | 5.00 | ug/L |
| P4868-03 | RW5-SP303-20241114 | Water | Cobalt | 1.62 | J | 0.50 | 3.75 | 15.0 | ug/L |
| P4868-03 | RW5-SP303-20241114 | Water | Iron | 46.5 | J | 18.5 | 40.0 | 50.0 | ug/L |
| P4868-03 | RW5-SP303-20241114 | Water | Magnesium | 1780 | | 39.4 | 250 | 1000 | ug/L |
| P4868-03 | RW5-SP303-20241114 | Water | Manganese | 36.2 | | 1.46 | 2.50 | 10.0 | ug/L |
| P4868-03 | RW5-SP303-20241114 | Water | Nickel | 2.38 | J | 0.85 | 5.00 | 20.0 | ug/L |
| P4868-03 | RW5-SP303-20241114 | Water | Potassium | 792 | J | 685 | 800 | 1000 | ug/L |
| P4868-03 | RW5-SP303-20241114 | Water | Sodium | 10700 | | 237 | 500 | 1000 | ug/L |
| P4868-03 | RW5-SP303-20241114 | Water | Zinc | 9.05 | J | 1.75 | 5.00 | 20.0 | ug/L |

# SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP100-20241114 | SDG No.: | P4868 |
| Lab Sample ID: | P4868-01 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 40.0 | U | 1 | 28.3 | 40.0 | 50.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-36-0 | Antimony | 6.25 | U | 1 | 2.06 | 6.25 | 25.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-38-2 | Arsenic | 8.00 | U | 1 | 3.48 | 8.00 | 10.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-39-3 | Barium | 12.5 | U | 1 | 6.28 | 12.5 | 50.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-41-7 | Beryllium | 0.75 | U | 1 | 0.13 | 0.75 | 3.00 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-43-9 | Cadmium | 0.75 | U | 1 | 0.094 | 0.75 | 3.00 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-70-2 | Calcium | 3290 | | 1 | 33.0 | 250 | 1000 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-47-3 | Chromium | 1.94 | J | 1 | 0.66 | 2.50 | 5.00 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-48-4 | Cobalt | 2.82 | J | 1 | 0.50 | 3.75 | 15.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-50-8 | Copper | 8.00 | U | 1 | 7.07 | 8.00 | 10.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7439-89-6 | Iron | 1210 | | 1 | 18.5 | 40.0 | 50.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7439-92-1 | Lead | 6.72 | | 1 | 3.51 | 4.80 | 6.00 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7439-95-4 | Magnesium | 1320 | | 1 | 39.4 | 250 | 1000 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7439-96-5 | Manganese | 20.0 | | 1 | 1.46 | 2.50 | 10.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7439-97-6 | Mercury | 0.16 | U | 1 | 0.081 | 0.16 | 0.20 | ug/L | 11/18/24 13:05 | 11/18/24 15:06 | SW7470A | |
| 7440-02-0 | Nickel | 4.70 | J | 1 | 0.85 | 5.00 | 20.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-09-7 | Potassium | 800 | U | 1 | 685 | 800 | 1000 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7782-49-2 | Selenium | 8.00 | U | 1 | 5.88 | 8.00 | 10.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-22-4 | Silver | 2.50 | U | 1 | 0.58 | 2.50 | 5.00 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-23-5 | Sodium | 10800 | | 1 | 237 | 500 | 1000 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-28-0 | Thallium | 10.0 | U | 1 | 2.32 | 10.0 | 20.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-62-2 | Vanadium | 10.0 | U | 1 | 3.06 | 10.0 | 20.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |
| 7440-66-6 | Zinc | 14.8 | J | 1 | 1.75 | 5.00 | 20.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:08 | SW6010 | SW3010 |

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

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

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 11/14/24 |
| Project: | CTO WE13 | Date Received: | 11/14/24 |
| Client Sample ID: | RW5-SP303-20241114 | SDG No.: | P4868 |
| Lab Sample ID: | P4868-03 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 40.0 | U | 1 | 28.3 | 40.0 | 50.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-36-0 | Antimony | 6.25 | U | 1 | 2.06 | 6.25 | 25.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-38-2 | Arsenic | 8.00 | U | 1 | 3.48 | 8.00 | 10.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-39-3 | Barium | 12.5 | U | 1 | 6.28 | 12.5 | 50.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-41-7 | Beryllium | 0.75 | U | 1 | 0.13 | 0.75 | 3.00 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-43-9 | Cadmium | 0.75 | U | 1 | 0.094 | 0.75 | 3.00 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-70-2 | Calcium | 4720 | | 1 | 33.0 | 250 | 1000 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-47-3 | Chromium | 4.33 | J | 1 | 0.66 | 2.50 | 5.00 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-48-4 | Cobalt | 1.62 | J | 1 | 0.50 | 3.75 | 15.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-50-8 | Copper | 8.00 | U | 1 | 7.07 | 8.00 | 10.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7439-89-6 | Iron | 46.5 | J | 1 | 18.5 | 40.0 | 50.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7439-92-1 | Lead | 4.80 | U | 1 | 3.51 | 4.80 | 6.00 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7439-95-4 | Magnesium | 1780 | | 1 | 39.4 | 250 | 1000 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7439-96-5 | Manganese | 36.2 | | 1 | 1.46 | 2.50 | 10.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7439-97-6 | Mercury | 0.16 | U | 1 | 0.081 | 0.16 | 0.20 | ug/L | 11/18/24 13:05 | 11/18/24 15:08 | SW7470A | |
| 7440-02-0 | Nickel | 2.38 | J | 1 | 0.85 | 5.00 | 20.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-09-7 | Potassium | 792 | J | 1 | 685 | 800 | 1000 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7782-49-2 | Selenium | 8.00 | U | 1 | 5.88 | 8.00 | 10.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-22-4 | Silver | 2.50 | U | 1 | 0.58 | 2.50 | 5.00 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-23-5 | Sodium | 10700 | | 1 | 237 | 500 | 1000 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-28-0 | Thallium | 10.0 | U | 1 | 2.32 | 10.0 | 20.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-62-2 | Vanadium | 10.0 | U | 1 | 3.06 | 10.0 | 20.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |
| 7440-66-6 | Zinc | 9.05 | J | 1 | 1.75 | 5.00 | 20.0 | ug/L | 11/15/24 13:00 | 11/18/24 16:12 | SW6010 | SW3010 |

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

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

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

# METAL CALIBRATION DATA

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**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 |
|---|---|---|---|---|---|---|---|---|---|
| ICV89 | Mercury | 3.74 | 4.0 | 94 | 90 - 110 | CV | 11/18/2024 | 13:46 | LB133490 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Mercury | 4.94 | 5.0 | 99 | 90 - 110 | CV | 11/18/2024 | 13:53 | LB133490 |
| CCV02 | Mercury | 4.96 | 5.0 | 99 | 90 - 110 | CV | 11/18/2024 | 14:26 | LB133490 |
| CCV03 | Mercury | 5.11 | 5.0 | 102 | 90 - 110 | CV | 11/18/2024 | 14:59 | LB133490 |
| CCV04 | Mercury | 5.01 | 5.0 | 100 | 90 - 110 | CV | 11/18/2024 | 15:22 | LB133490 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Aluminum | 2680 | 2500 | 107 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Antimony | 1040 | 1000 | 104 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Arsenic | 1040 | 1000 | 104 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Barium | 533 | 520 | 102 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Beryllium | 521 | 510 | 102 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Cadmium | 523 | 510 | 103 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Calcium | 10400 | 10000 | 104 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Chromium | 554 | 520 | 107 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Cobalt | 530 | 520 | 102 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Copper | 544 | 510 | 107 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Iron | 10500 | 10000 | 105 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Lead | 1030 | 1000 | 104 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Magnesium | 6150 | 6000 | 102 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Manganese | 534 | 520 | 103 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Nickel | 531 | 530 | 100 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Potassium | 10400 | 9900 | 105 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Selenium | 1070 | 1000 | 107 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Silver | 264 | 250 | 106 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Sodium | 9990 | 10000 | 100 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Thallium | 1040 | 1000 | 104 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Vanadium | 522 | 500 | 104 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Zinc | 1080 | 1000 | 108 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Aluminum | 104 | 100 | 104 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Antimony | 49.6 | 50.0 | 99 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Arsenic | 18.9 | 20.0 | 94 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Barium | 101 | 100 | 101 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Beryllium | 6.06 | 6.0 | 101 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Cadmium | 6.99 | 6.0 | 116 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Calcium | 2060 | 2000 | 103 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Chromium | 10.5 | 10.0 | 105 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Cobalt | 29.4 | 30.0 | 98 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Copper | 22.1 | 20.0 | 110 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Iron | 100 | 100 | 100 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Lead | 12.1 | 12.0 | 101 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Magnesium | 2050 | 2000 | 102 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Manganese | 20.8 | 20.0 | 104 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Nickel | 39.0 | 40.0 | 97 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Potassium | 1900 | 2000 | 95 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Selenium | 20.9 | 20.0 | 105 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Silver | 10.8 | 10.0 | 108 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Sodium | 1650 | 2000 | 82 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Thallium | 39.6 | 40.0 | 99 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Vanadium | 40.1 | 40.0 | 100 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Zinc | 43.9 | 40.0 | 110 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Antimony | 5090 | 5000 | 102 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Arsenic | 4990 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Barium | 9590 | 10000 | 96 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Beryllium | 243 | 250 | 97 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Cadmium | 2460 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Calcium | 24300 | 25000 | 97 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Cobalt | 2460 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Copper | 1270 | 1250 | 101 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Iron | 4940 | 5000 | 99 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Lead | 4930 | 5000 | 99 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Magnesium | 24500 | 25000 | 98 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Manganese | 2370 | 2500 | 95 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Nickel | 2460 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Potassium | 24900 | 25000 | 99 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Selenium | 5110 | 5000 | 102 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Sodium | 24500 | 25000 | 98 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Thallium | 5140 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Vanadium | 2470 | 2500 | 99 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Zinc | 2550 | 2500 | 102 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| CCV02 | Aluminum | 10200 | 10000 | 102 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Antimony | 5150 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Arsenic | 5030 | 5000 | 101 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Barium | 9540 | 10000 | 95 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Beryllium | 243 | 250 | 97 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Cadmium | 2490 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Calcium | 24500 | 25000 | 98 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Cobalt | 2490 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Iron | 4940 | 5000 | 99 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Lead | 4980 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV02 | Magnesium | 24700 | 25000 | 99 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Manganese | 2370 | 2500 | 95 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Nickel | 2490 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Potassium | 25400 | 25000 | 102 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Selenium | 5160 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Silver | 1260 | 1250 | 100 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Sodium | 24400 | 25000 | 98 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Thallium | 5110 | 5000 | 102 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Vanadium | 2500 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Zinc | 2550 | 2500 | 102 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| CCV03 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Antimony | 5130 | 5000 | 102 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Arsenic | 5000 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Barium | 9430 | 10000 | 94 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Beryllium | 239 | 250 | 96 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Cadmium | 2450 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Calcium | 23900 | 25000 | 96 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Cobalt | 2450 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Copper | 1270 | 1250 | 101 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Iron | 4850 | 5000 | 97 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Lead | 4910 | 5000 | 98 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Magnesium | 24100 | 25000 | 96 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Manganese | 2320 | 2500 | 93 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Nickel | 2450 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Potassium | 24900 | 25000 | 100 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Selenium | 5130 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Silver | 1240 | 1250 | 100 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Sodium | 24100 | 25000 | 96 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Thallium | 5000 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Vanadium | 2450 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Zinc | 2550 | 2500 | 102 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| CCV04 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Antimony | 5140 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV04 | Arsenic | 5020 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Barium | 9440 | 10000 | 94 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Beryllium | 241 | 250 | 96 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Cadmium | 2460 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Calcium | 24000 | 25000 | 96 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Cobalt | 2450 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Iron | 4880 | 5000 | 98 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Lead | 4910 | 5000 | 98 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Magnesium | 24400 | 25000 | 97 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Manganese | 2310 | 2500 | 92 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Nickel | 2450 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Potassium | 24900 | 25000 | 100 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Selenium | 5210 | 5000 | 104 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Sodium | 24000 | 25000 | 96 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Thallium | 5310 | 5000 | 106 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Vanadium | 2460 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Zinc | 2570 | 2500 | 103 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| CCV05 | Aluminum | 10200 | 10000 | 102 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Antimony | 5270 | 5000 | 105 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Arsenic | 5120 | 5000 | 102 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Barium | 9720 | 10000 | 97 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Beryllium | 246 | 250 | 98 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Cadmium | 2500 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Calcium | 24400 | 25000 | 98 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Chromium | 1040 | 1000 | 104 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Cobalt | 2500 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Copper | 1300 | 1250 | 104 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Iron | 4970 | 5000 | 99 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Lead | 5000 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Magnesium | 24700 | 25000 | 99 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Manganese | 2370 | 2500 | 95 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV05 | Nickel | 2500 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Potassium | 25600 | 25000 | 102 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Selenium | 5040 | 5000 | 101 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Silver | 1280 | 1250 | 102 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Sodium | 25200 | 25000 | 101 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Thallium | 5140 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Vanadium | 2510 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Zinc | 2550 | 2500 | 102 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| CCV06 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Antimony | 5200 | 5000 | 104 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Arsenic | 5080 | 5000 | 102 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Barium | 9550 | 10000 | 96 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Beryllium | 245 | 250 | 98 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Cadmium | 2490 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Calcium | 24400 | 25000 | 97 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Chromium | 1040 | 1000 | 104 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Cobalt | 2490 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Iron | 4960 | 5000 | 99 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Lead | 4980 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Magnesium | 24600 | 25000 | 98 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Manganese | 2360 | 2500 | 94 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Nickel | 2490 | 2500 | 99 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Potassium | 25300 | 25000 | 101 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Selenium | 4980 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Silver | 1270 | 1250 | 102 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Sodium | 24700 | 25000 | 99 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Thallium | 5170 | 5000 | 104 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Vanadium | 2490 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Zinc | 2570 | 2500 | 103 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| CCV07 | Aluminum | 10500 | 10000 | 105 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Antimony | 5440 | 5000 | 109 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Arsenic | 5290 | 5000 | 106 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Barium | 9680 | 10000 | 97 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV07 | Beryllium | 251 | 250 | 100 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Cadmium | 2570 | 2500 | 103 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Calcium | 25000 | 25000 | 100 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Chromium | 1070 | 1000 | 107 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Cobalt | 2570 | 2500 | 103 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Copper | 1330 | 1250 | 106 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Iron | 5050 | 5000 | 101 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Lead | 5140 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Magnesium | 25300 | 25000 | 101 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Manganese | 2410 | 2500 | 96 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Nickel | 2560 | 2500 | 103 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Potassium | 25800 | 25000 | 103 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Selenium | 5260 | 5000 | 105 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Silver | 1300 | 1250 | 104 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Sodium | 24400 | 25000 | 97 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Thallium | 5370 | 5000 | 108 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Vanadium | 2570 | 2500 | 103 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Zinc | 2650 | 2500 | 106 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Aluminum | 2680 | 2500 | 107 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Antimony | 1020 | 1000 | 102 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Arsenic | 1040 | 1000 | 104 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Barium | 535 | 520 | 103 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Beryllium | 528 | 510 | 104 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Cadmium | 529 | 510 | 104 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Calcium | 10500 | 10000 | 105 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Chromium | 548 | 520 | 106 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Cobalt | 532 | 520 | 102 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Copper | 546 | 510 | 107 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Iron | 10400 | 10000 | 104 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Lead | 1050 | 1000 | 105 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Magnesium | 6200 | 6000 | 103 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Manganese | 540 | 520 | 104 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Nickel | 535 | 530 | 101 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Potassium | 10300 | 9900 | 104 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Selenium | 1070 | 1000 | 107 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Silver | 267 | 250 | 107 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Sodium | 9880 | 10000 | 99 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Thallium | 1090 | 1000 | 109 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Vanadium | 523 | 500 | 105 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |
| | Zinc | 1090 | 1000 | 109 | 90 - 110 | P | 11/20/2024 | 12:50 | LB133540 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Aluminum | 101 | 100 | 101 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Antimony | 48.0 | 50.0 | 96 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Arsenic | 17.6 | 20.0 | 88 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Barium | 95.0 | 100 | 95 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Beryllium | 5.41 | 6.0 | 90 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Cadmium | 6.86 | 6.0 | 114 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Calcium | 1940 | 2000 | 97 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Chromium | 10.0 | 10.0 | 100 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Cobalt | 28.3 | 30.0 | 94 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Copper | 21.0 | 20.0 | 105 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Iron | 91.6 | 100 | 92 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Lead | 11.5 | 12.0 | 96 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Magnesium | 1910 | 2000 | 96 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Manganese | 19.3 | 20.0 | 96 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Nickel | 37.3 | 40.0 | 93 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Potassium | 1790 | 2000 | 90 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Selenium | 16.0 | 20.0 | 80 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Silver | 10.1 | 10.0 | 101 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Sodium | 1620 | 2000 | 81 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Thallium | 36.9 | 40.0 | 92 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Vanadium | 38.5 | 40.0 | 96 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |
| | Zinc | 41.3 | 40.0 | 103 | 80 - 120 | P | 11/20/2024 | 12:59 | LB133540 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Antimony | 5020 | 5000 | 100 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Arsenic | 4940 | 5000 | 99 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Barium | 9530 | 10000 | 95 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Beryllium | 241 | 250 | 96 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Cadmium | 2440 | 2500 | 98 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Calcium | 24200 | 25000 | 97 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Cobalt | 2460 | 2500 | 98 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Copper | 1270 | 1250 | 101 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Iron | 4930 | 5000 | 99 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Lead | 4920 | 5000 | 98 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Magnesium | 24300 | 25000 | 97 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Manganese | 2360 | 2500 | 94 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Nickel | 2460 | 2500 | 99 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Potassium | 25400 | 25000 | 102 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Selenium | 5030 | 5000 | 101 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Sodium | 24700 | 25000 | 99 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Thallium | 4950 | 5000 | 99 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Vanadium | 2460 | 2500 | 98 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| | Zinc | 2570 | 2500 | 103 | 90 - 110 | P | 11/20/2024 | 13:35 | LB133540 |
| CCV02 | Aluminum | 9020 | 10000 | 90 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Antimony | 5460 | 5000 | 109 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Arsenic | 5460 | 5000 | 109 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Barium | 9550 | 10000 | 96 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Beryllium | 260 | 250 | 104 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Cadmium | 2610 | 2500 | 104 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Calcium | 27000 | 25000 | 108 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Chromium | 905 | 1000 | 90 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Cobalt | 2540 | 2500 | 102 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Copper | 1300 | 1250 | 104 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Iron | 5120 | 5000 | 102 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Lead | 5120 | 5000 | 102 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV02 | Magnesium | 23800 | 25000 | 95 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Manganese | 2700 | 2500 | 108 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Nickel | 2460 | 2500 | 98 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Potassium | 27300 | 25000 | 109 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Selenium | 4620 | 5000 | 92 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Silver | 1290 | 1250 | 103 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Sodium | 26700 | 25000 | 107 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Thallium | 4920 | 5000 | 98 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Vanadium | 2560 | 2500 | 102 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| | Zinc | 2280 | 2500 | 91 | 90 - 110 | P | 11/20/2024 | 14:50 | LB133540 |
| CCV03 | Aluminum | 9540 | 10000 | 95 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Antimony | 4680 | 5000 | 94 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Arsenic | 4610 | 5000 | 92 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Barium | 9040 | 10000 | 90 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Beryllium | 237 | 250 | 95 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Cadmium | 2300 | 2500 | 92 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Calcium | 23200 | 25000 | 93 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Chromium | 971 | 1000 | 97 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Cobalt | 2300 | 2500 | 92 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Copper | 1180 | 1250 | 94 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Iron | 4610 | 5000 | 92 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Lead | 4640 | 5000 | 93 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Magnesium | 23400 | 25000 | 94 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Manganese | 2250 | 2500 | 90 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Nickel | 2300 | 2500 | 92 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Potassium | 23700 | 25000 | 95 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Selenium | 4720 | 5000 | 94 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Sodium | 22800 | 25000 | 91 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Thallium | 4610 | 5000 | 92 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Vanadium | 2350 | 2500 | 94 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |
| | Zinc | 2430 | 2500 | 97 | 90 - 110 | P | 11/20/2024 | 16:48 | LB133540 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRI01 | Aluminum | 107 | 100 | 107 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Antimony | 51.5 | 50.0 | 103 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Arsenic | 19.8 | 20.0 | 99 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Barium | 98.9 | 100 | 99 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Beryllium | 5.98 | 6.0 | 100 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Cadmium | 7.02 | 6.0 | 117 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Calcium | 2040 | 2000 | 102 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Chromium | 10.5 | 10.0 | 105 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Cobalt | 29.7 | 30.0 | 99 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Copper | 22.7 | 20.0 | 113 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Iron | 99.2 | 100 | 99 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Lead | 11.7 | 12.0 | 97 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Magnesium | 2030 | 2000 | 102 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Manganese | 20.0 | 20.0 | 100 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Nickel | 39.4 | 40.0 | 98 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Potassium | 1920 | 2000 | 96 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Selenium | 21.8 | 20.0 | 109 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Silver | 11.0 | 10.0 | 110 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Sodium | 1640 | 2000 | 82 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Thallium | 40.7 | 40.0 | 102 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Vanadium | 41.7 | 40.0 | 104 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Zinc | 44.6 | 40.0 | 111 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| CRA | Mercury | 0.17 | 0.2 | 86 | 40 - 160 | CV | 11/18/2024 | 14:00 | LB133490 |
| CRI01 | Aluminum | 112 | 100 | 112 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Antimony | 50.5 | 50.0 | 101 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Arsenic | 21.2 | 20.0 | 106 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Barium | 99.7 | 100 | 100 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Beryllium | 5.83 | 6.0 | 97 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Cadmium | 7.32 | 6.0 | 122 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Calcium | 2060 | 2000 | 103 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Chromium | 10.5 | 10.0 | 105 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Cobalt | 29.8 | 30.0 | 99 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Copper | 22.6 | 20.0 | 113 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Iron | 98.8 | 100 | 99 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Lead | 12.4 | 12.0 | 104 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |

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# Metals

## - 2b -

## CRDL STANDARD FOR AA & ICP

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRI01 | Magnesium | 2040 | 2000 | 102 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Manganese | 20.5 | 20.0 | 103 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Nickel | 39.4 | 40.0 | 98 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Potassium | 1900 | 2000 | 95 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Selenium | 15.8 | 20.0 | 79 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Silver | 11.0 | 10.0 | 110 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Sodium | 1700 | 2000 | 85 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Thallium | 38.0 | 40.0 | 95 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Vanadium | 41.1 | 40.0 | 103 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |
| | Zinc | 44.1 | 40.0 | 110 | 40 - 160 | P | 11/20/2024 | 13:13 | LB133540 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICB89** | Mercury | 0.20 | +/-0.20 | U | 0.16 | 0.20 | CV | 11/18/2024 | 13:48 | LB133490 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **CCB01** | Mercury | 0.20 | +/-0.20 | U | 0.16 | 0.20 | CV | 11/18/2024 | 13:58 | LB133490 |
| **CCB02** | Mercury | 0.20 | +/-0.20 | U | 0.16 | 0.20 | CV | 11/18/2024 | 14:28 | LB133490 |
| **CCB03** | Mercury | 0.20 | +/-0.20 | U | 0.16 | 0.20 | CV | 11/18/2024 | 15:01 | LB133490 |
| **CCB04** | Mercury | 0.089 | +/-0.20 | J | 0.16 | 0.20 | CV | 11/18/2024 | 15:24 | LB133490 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 13:15 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 12.5 | 50.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 11/18/2024 | 13:15 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 13:15 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 13:15 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 13:15 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 7.50 | 30.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Iron | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 13:15 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 13:15 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 5.00 | 20.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 1600 | 2000 | P | 11/18/2024 | 13:15 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 1000 | 2000 | P | 11/18/2024 | 13:15 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 13:15 | LB133502 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| CCB01 | Aluminum | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 14:02 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 12.5 | 50.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 11/18/2024 | 14:02 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 14:02 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 14:02 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 14:02 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 7.50 | 30.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Iron | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 14:02 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 14:02 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 5.00 | 20.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 1600 | 2000 | P | 11/18/2024 | 14:02 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 1000 | 2000 | P | 11/18/2024 | 14:02 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 14:02 | LB133502 |
| CCB02 | Aluminum | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 14:35 | LB133502 |
| | Antimony | 4.42 | +/-50.0 | J | 12.5 | 50.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Barium | 18.0 | +/-100 | J | 25.0 | 100 | P | 11/18/2024 | 14:35 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 14:35 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 14:35 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 14:35 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 7.50 | 30.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Iron | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 14:35 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 14:35 | LB133502 |
| | Manganese | 5.73 | +/-20.0 | J | 5.00 | 20.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 1600 | 2000 | P | 11/18/2024 | 14:35 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 14:35 | LB133502 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **CCB02** | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 1000 | 2000 | P | 11/18/2024 | 14:35 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Vanadium | 6.17 | +/-40.0 | J | 20.0 | 40.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 14:35 | LB133502 |
| **CCB03** | Aluminum | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 15:39 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 12.5 | 50.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 11/18/2024 | 15:39 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 15:39 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 15:39 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 15:39 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 7.50 | 30.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Iron | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 15:39 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 15:39 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 5.00 | 20.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 1600 | 2000 | P | 11/18/2024 | 15:39 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 1000 | 2000 | P | 11/18/2024 | 15:39 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 15:39 | LB133502 |
| **CCB04** | Aluminum | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 16:29 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 12.5 | 50.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 11/18/2024 | 16:29 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 16:29 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 16:29 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 16:29 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 7.50 | 30.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Iron | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 16:29 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 11/18/2024 | 16:29 | LB133502 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| CCB04 | Magnesium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 16:29 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 5.00 | 20.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 1600 | 2000 | P | 11/18/2024 | 16:29 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 1000 | 2000 | P | 11/18/2024 | 16:29 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 16:29 | LB133502 |
| CCB05 | Aluminum | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 17:06 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 12.5 | 50.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 11/18/2024 | 17:06 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 17:06 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 17:06 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 17:06 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 7.50 | 30.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Iron | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 17:06 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 17:06 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 5.00 | 20.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 1600 | 2000 | P | 11/18/2024 | 17:06 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 1000 | 2000 | P | 11/18/2024 | 17:06 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 17:06 | LB133502 |
| CCB06 | Aluminum | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 18:08 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 12.5 | 50.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 11/18/2024 | 18:08 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 18:08 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 18:08 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 18:08 | LB133502 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **CCB06** | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 7.50 | 30.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Iron | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 18:08 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 18:08 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 5.00 | 20.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 1600 | 2000 | P | 11/18/2024 | 18:08 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 1000 | 2000 | P | 11/18/2024 | 18:08 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 18:08 | LB133502 |
| **CCB07** | Aluminum | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 18:58 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 12.5 | 50.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 11/18/2024 | 18:58 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 18:58 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/18/2024 | 18:58 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 18:58 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 7.50 | 30.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Iron | 100 | +/-100 | U | 80.0 | 100 | P | 11/18/2024 | 18:58 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/18/2024 | 18:58 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 5.00 | 20.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 1600 | 2000 | P | 11/18/2024 | 18:58 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 1000 | 2000 | P | 11/18/2024 | 18:58 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/18/2024 | 18:58 | LB133502 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 100 | +/-100 | U | 80.0 | 100 | P | 11/20/2024 | 13:09 | LB133540 |
| | Antimony | 50.0 | +/-50.0 | U | 12.5 | 50.0 | P | 11/20/2024 | 13:09 | LB133540 |
| | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/20/2024 | 13:09 | LB133540 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 11/20/2024 | 13:09 | LB133540 |
| | Beryllium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/20/2024 | 13:09 | LB133540 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/20/2024 | 13:09 | LB133540 |
| | Calcium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/20/2024 | 13:09 | LB133540 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/20/2024 | 13:09 | LB133540 |
| | Cobalt | 30.0 | +/-30.0 | U | 7.50 | 30.0 | P | 11/20/2024 | 13:09 | LB133540 |
| | Copper | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/20/2024 | 13:09 | LB133540 |
| | Iron | 100 | +/-100 | U | 80.0 | 100 | P | 11/20/2024 | 13:09 | LB133540 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 11/20/2024 | 13:09 | LB133540 |
| | Magnesium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/20/2024 | 13:09 | LB133540 |
| | Manganese | 20.0 | +/-20.0 | U | 5.00 | 20.0 | P | 11/20/2024 | 13:09 | LB133540 |
| | Nickel | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/20/2024 | 13:09 | LB133540 |
| | Potassium | 2000 | +/-2000 | U | 1600 | 2000 | P | 11/20/2024 | 13:09 | LB133540 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/20/2024 | 13:09 | LB133540 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/20/2024 | 13:09 | LB133540 |
| | Sodium | 2000 | +/-2000 | U | 1000 | 2000 | P | 11/20/2024 | 13:09 | LB133540 |
| | Thallium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/20/2024 | 13:09 | LB133540 |
| | Vanadium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/20/2024 | 13:09 | LB133540 |
| | Zinc | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/20/2024 | 13:09 | LB133540 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| CCB01 | Aluminum | 100 | +/-100 | U | 80.0 | 100 | P | 11/20/2024 | 13:46 | LB133540 |
| | Antimony | 50.0 | +/-50.0 | U | 12.5 | 50.0 | P | 11/20/2024 | 13:46 | LB133540 |
| | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/20/2024 | 13:46 | LB133540 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 11/20/2024 | 13:46 | LB133540 |
| | Beryllium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/20/2024 | 13:46 | LB133540 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/20/2024 | 13:46 | LB133540 |
| | Calcium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/20/2024 | 13:46 | LB133540 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/20/2024 | 13:46 | LB133540 |
| | Cobalt | 30.0 | +/-30.0 | U | 7.50 | 30.0 | P | 11/20/2024 | 13:46 | LB133540 |
| | Copper | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/20/2024 | 13:46 | LB133540 |
| | Iron | 100 | +/-100 | U | 80.0 | 100 | P | 11/20/2024 | 13:46 | LB133540 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 11/20/2024 | 13:46 | LB133540 |
| | Magnesium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/20/2024 | 13:46 | LB133540 |
| | Manganese | 20.0 | +/-20.0 | U | 5.00 | 20.0 | P | 11/20/2024 | 13:46 | LB133540 |
| | Nickel | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/20/2024 | 13:46 | LB133540 |
| | Potassium | 2000 | +/-2000 | U | 1600 | 2000 | P | 11/20/2024 | 13:46 | LB133540 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/20/2024 | 13:46 | LB133540 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/20/2024 | 13:46 | LB133540 |
| | Sodium | 2000 | +/-2000 | U | 1000 | 2000 | P | 11/20/2024 | 13:46 | LB133540 |
| | Thallium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/20/2024 | 13:46 | LB133540 |
| | Vanadium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/20/2024 | 13:46 | LB133540 |
| | Zinc | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/20/2024 | 13:46 | LB133540 |
| CCB02 | Aluminum | 100 | +/-100 | U | 80.0 | 100 | P | 11/20/2024 | 15:00 | LB133540 |
| | Antimony | 50.0 | +/-50.0 | U | 12.5 | 50.0 | P | 11/20/2024 | 15:00 | LB133540 |
| | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/20/2024 | 15:00 | LB133540 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 11/20/2024 | 15:00 | LB133540 |
| | Beryllium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/20/2024 | 15:00 | LB133540 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/20/2024 | 15:00 | LB133540 |
| | Calcium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/20/2024 | 15:00 | LB133540 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/20/2024 | 15:00 | LB133540 |
| | Cobalt | 30.0 | +/-30.0 | U | 7.50 | 30.0 | P | 11/20/2024 | 15:00 | LB133540 |
| | Copper | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/20/2024 | 15:00 | LB133540 |
| | Iron | 100 | +/-100 | U | 80.0 | 100 | P | 11/20/2024 | 15:00 | LB133540 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 11/20/2024 | 15:00 | LB133540 |
| | Magnesium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/20/2024 | 15:00 | LB133540 |
| | Manganese | 20.0 | +/-20.0 | U | 5.00 | 20.0 | P | 11/20/2024 | 15:00 | LB133540 |
| | Nickel | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/20/2024 | 15:00 | LB133540 |
| | Potassium | 2000 | +/-2000 | U | 1600 | 2000 | P | 11/20/2024 | 15:00 | LB133540 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/20/2024 | 15:00 | LB133540 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **CCB02** | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/20/2024 | 15:00 | LB133540 |
| | Sodium | 2000 | +/-2000 | U | 1000 | 2000 | P | 11/20/2024 | 15:00 | LB133540 |
| | Thallium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/20/2024 | 15:00 | LB133540 |
| | Vanadium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/20/2024 | 15:00 | LB133540 |
| | Zinc | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/20/2024 | 15:00 | LB133540 |
| **CCB03** | Aluminum | 100 | +/-100 | U | 80.0 | 100 | P | 11/20/2024 | 16:52 | LB133540 |
| | Antimony | 50.0 | +/-50.0 | U | 12.5 | 50.0 | P | 11/20/2024 | 16:52 | LB133540 |
| | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/20/2024 | 16:52 | LB133540 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 11/20/2024 | 16:52 | LB133540 |
| | Beryllium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/20/2024 | 16:52 | LB133540 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 11/20/2024 | 16:52 | LB133540 |
| | Calcium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/20/2024 | 16:52 | LB133540 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/20/2024 | 16:52 | LB133540 |
| | Cobalt | 30.0 | +/-30.0 | U | 7.50 | 30.0 | P | 11/20/2024 | 16:52 | LB133540 |
| | Copper | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/20/2024 | 16:52 | LB133540 |
| | Iron | 100 | +/-100 | U | 80.0 | 100 | P | 11/20/2024 | 16:52 | LB133540 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 11/20/2024 | 16:52 | LB133540 |
| | Magnesium | 2000 | +/-2000 | U | 500 | 2000 | P | 11/20/2024 | 16:52 | LB133540 |
| | Manganese | 20.0 | +/-20.0 | U | 5.00 | 20.0 | P | 11/20/2024 | 16:52 | LB133540 |
| | Nickel | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/20/2024 | 16:52 | LB133540 |
| | Potassium | 2000 | +/-2000 | U | 1600 | 2000 | P | 11/20/2024 | 16:52 | LB133540 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 11/20/2024 | 16:52 | LB133540 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 11/20/2024 | 16:52 | LB133540 |
| | Sodium | 2000 | +/-2000 | U | 1000 | 2000 | P | 11/20/2024 | 16:52 | LB133540 |
| | Thallium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/20/2024 | 16:52 | LB133540 |
| | Vanadium | 40.0 | +/-40.0 | U | 20.0 | 40.0 | P | 11/20/2024 | 16:52 | LB133540 |
| | Zinc | 40.0 | +/-40.0 | U | 10.0 | 40.0 | P | 11/20/2024 | 16:52 | LB133540 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Instrument:** CV1

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | LOD ug/L | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| **PB165066BL** | | **WATER** | | **Batch Number:** | | **PB165066** | | **Prep Date:** | **11/18/2024** | |
| | Mercury | 0.20 | <0.20 | U | 0.16 | 0.20 | CV | 11/18/2024 | 14:43 | LB133490 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Instrument:** P4

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | LOD ug/L | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| **PB165011BL** | | **WATER** | | **Batch Number:** | | **PB165011** | | **Prep Date:** | **11/15/2024** | |
| | Aluminum | 50.0 | <50.0 | U | 40.0 | 50.0 | P | 11/20/2024 | 16:39 | LB133540 |
| | Antimony | 25.0 | <25.0 | U | 6.25 | 25.0 | P | 11/20/2024 | 16:39 | LB133540 |
| | Arsenic | 10.0 | <10.0 | U | 8.00 | 10.0 | P | 11/20/2024 | 16:39 | LB133540 |
| | Barium | 50.0 | <50.0 | U | 12.5 | 50.0 | P | 11/20/2024 | 16:39 | LB133540 |
| | Beryllium | 3.00 | <3.00 | U | 0.75 | 3.00 | P | 11/20/2024 | 16:39 | LB133540 |
| | Cadmium | 3.00 | <3.00 | U | 0.75 | 3.00 | P | 11/20/2024 | 16:39 | LB133540 |
| | Calcium | 1000 | <1000 | U | 250 | 1000 | P | 11/20/2024 | 16:39 | LB133540 |
| | Chromium | 5.00 | <5.00 | U | 2.50 | 5.00 | P | 11/20/2024 | 16:39 | LB133540 |
| | Cobalt | 15.0 | <15.0 | U | 3.75 | 15.0 | P | 11/20/2024 | 16:39 | LB133540 |
| | Copper | 10.0 | <10.0 | U | 8.00 | 10.0 | P | 11/20/2024 | 16:39 | LB133540 |
| | Iron | 50.0 | <50.0 | U | 40.0 | 50.0 | P | 11/20/2024 | 16:39 | LB133540 |
| | Lead | 6.00 | <6.00 | U | 4.80 | 6.00 | P | 11/20/2024 | 16:39 | LB133540 |
| | Magnesium | 1000 | <1000 | U | 250 | 1000 | P | 11/20/2024 | 16:39 | LB133540 |
| | Manganese | 10.0 | <10.0 | U | 2.50 | 10.0 | P | 11/20/2024 | 16:39 | LB133540 |
| | Nickel | 20.0 | <20.0 | U | 5.00 | 20.0 | P | 11/20/2024 | 16:39 | LB133540 |
| | Potassium | 1000 | <1000 | U | 800 | 1000 | P | 11/20/2024 | 16:39 | LB133540 |
| | Selenium | 10.0 | <10.0 | U | 8.00 | 10.0 | P | 11/20/2024 | 16:39 | LB133540 |
| | Silver | 5.00 | <5.00 | U | 2.50 | 5.00 | P | 11/20/2024 | 16:39 | LB133540 |
| | Sodium | 1000 | <1000 | U | 500 | 1000 | P | 11/20/2024 | 16:39 | LB133540 |
| | Thallium | 20.0 | <20.0 | U | 10.0 | 20.0 | P | 11/20/2024 | 16:39 | LB133540 |
| | Vanadium | 20.0 | <20.0 | U | 10.0 | 20.0 | P | 11/20/2024 | 16:39 | LB133540 |
| | Zinc | 20.0 | <20.0 | U | 5.00 | 20.0 | P | 11/20/2024 | 16:39 | LB133540 |

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

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

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICSA01 | Aluminum | 255000 | 255000 | 100 | 216000 | 294000 | 11/18/2024 | 13:30 | LB133502 |
| | Antimony | -3.34 | | | -50 | 50 | 11/18/2024 | 13:30 | LB133502 |
| | Arsenic | 6.18 | | | -20 | 20 | 11/18/2024 | 13:30 | LB133502 |
| | Barium | 2.50 | 6.0 | 42 | -94 | 106 | 11/18/2024 | 13:30 | LB133502 |
| | Beryllium | 1.39 | | | -6 | 6 | 11/18/2024 | 13:30 | LB133502 |
| | Cadmium | 4.50 | 1.0 | 450 | -5 | 7 | 11/18/2024 | 13:30 | LB133502 |
| | Calcium | 234000 | 245000 | 96 | 208000 | 282000 | 11/18/2024 | 13:30 | LB133502 |
| | Chromium | 56.3 | 52.0 | 108 | 42 | 62 | 11/18/2024 | 13:30 | LB133502 |
| | Cobalt | 1.87 | | | -30 | 30 | 11/18/2024 | 13:30 | LB133502 |
| | Copper | 14.3 | 2.0 | 715 | -18 | 22 | 11/18/2024 | 13:30 | LB133502 |
| | Iron | 96400 | 101000 | 95 | 85600 | 116500 | 11/18/2024 | 13:30 | LB133502 |
| | Lead | 8.39 | | | -12 | 12 | 11/18/2024 | 13:30 | LB133502 |
| | Magnesium | 257000 | 255000 | 101 | 216000 | 294000 | 11/18/2024 | 13:30 | LB133502 |
| | Manganese | 3.33 | 7.0 | 48 | -13 | 27 | 11/18/2024 | 13:30 | LB133502 |
| | Nickel | 2.89 | 2.0 | 144 | -38 | 42 | 11/18/2024 | 13:30 | LB133502 |
| | Potassium | 43.3 | | | 0 | 0 | 11/18/2024 | 13:30 | LB133502 |
| | Selenium | -16.2 | | | -20 | 20 | 11/18/2024 | 13:30 | LB133502 |
| | Silver | -0.11 | | | -10 | 10 | 11/18/2024 | 13:30 | LB133502 |
| | Sodium | -43.4 | | | 0 | 0 | 11/18/2024 | 13:30 | LB133502 |
| | Thallium | -4.41 | | | -40 | 40 | 11/18/2024 | 13:30 | LB133502 |
| | Vanadium | 7.77 | | | -40 | 40 | 11/18/2024 | 13:30 | LB133502 |
| | Zinc | 5.14 | | | -40 | 40 | 11/18/2024 | 13:30 | LB133502 |
| ICSAB01 | Aluminum | 263000 | 247000 | 106 | 209000 | 285000 | 11/18/2024 | 13:42 | LB133502 |
| | Antimony | 633 | 618 | 102 | 525 | 711 | 11/18/2024 | 13:42 | LB133502 |
| | Arsenic | 116 | 104 | 112 | 88.4 | 120 | 11/18/2024 | 13:42 | LB133502 |
| | Barium | 493 | 537 | 92 | 437 | 637 | 11/18/2024 | 13:42 | LB133502 |
| | Beryllium | 495 | 495 | 100 | 420 | 570 | 11/18/2024 | 13:42 | LB133502 |
| | Cadmium | 1020 | 972 | 105 | 826 | 1120 | 11/18/2024 | 13:42 | LB133502 |
| | Calcium | 238000 | 235000 | 101 | 199000 | 271000 | 11/18/2024 | 13:42 | LB133502 |
| | Chromium | 579 | 542 | 107 | 460 | 624 | 11/18/2024 | 13:42 | LB133502 |
| | Cobalt | 508 | 476 | 107 | 404 | 548 | 11/18/2024 | 13:42 | LB133502 |
| | Copper | 506 | 511 | 99 | 434 | 588 | 11/18/2024 | 13:42 | LB133502 |
| | Iron | 98700 | 99300 | 99 | 84400 | 114500 | 11/18/2024 | 13:42 | LB133502 |
| | Lead | 57.7 | 49.0 | 118 | 37 | 61 | 11/18/2024 | 13:42 | LB133502 |
| | Magnesium | 262000 | 248000 | 106 | 210000 | 286000 | 11/18/2024 | 13:42 | LB133502 |
| | Manganese | 475 | 507 | 94 | 430 | 584 | 11/18/2024 | 13:42 | LB133502 |
| | Nickel | 1000 | 954 | 105 | 810 | 1100 | 11/18/2024 | 13:42 | LB133502 |
| | Potassium | -18.9 | | | 0 | 0 | 11/18/2024 | 13:42 | LB133502 |
| | Selenium | 32.7 | 46.0 | 71 | 26 | 66 | 11/18/2024 | 13:42 | LB133502 |
| | Silver | 202 | 201 | 100 | 170 | 232 | 11/18/2024 | 13:42 | LB133502 |
| | Sodium | -170 | | | 0 | 0 | 11/18/2024 | 13:42 | LB133502 |
| | Thallium | 91.6 | 108 | 85 | 68 | 148 | 11/18/2024 | 13:42 | LB133502 |

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

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

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICSAB01** | Vanadium | 499 | 491 | 102 | 417 | 565 | 11/18/2024 | 13:42 | LB133502 |
| | Zinc | 894 | 952 | 94 | 809 | 1095 | 11/18/2024 | 13:42 | LB133502 |
| **ICSA01** | Aluminum | 268000 | 255000 | 105 | 216000 | 294000 | 11/20/2024 | 13:17 | LB133540 |
| | Antimony | -4.03 | | | -50 | 50 | 11/20/2024 | 13:17 | LB133540 |
| | Arsenic | 5.49 | | | -20 | 20 | 11/20/2024 | 13:17 | LB133540 |
| | Barium | 1.32 | 6.0 | 22 | -94 | 106 | 11/20/2024 | 13:17 | LB133540 |
| | Beryllium | 1.44 | | | -6 | 6 | 11/20/2024 | 13:17 | LB133540 |
| | Cadmium | 6.68 | 1.0 | 668 | -5 | 7 | 11/20/2024 | 13:17 | LB133540 |
| | Calcium | 244000 | 245000 | 100 | 208000 | 282000 | 11/20/2024 | 13:17 | LB133540 |
| | Chromium | 58.8 | 52.0 | 113 | 42 | 62 | 11/20/2024 | 13:17 | LB133540 |
| | Cobalt | 2.35 | | | -30 | 30 | 11/20/2024 | 13:17 | LB133540 |
| | Copper | 15.6 | 2.0 | 780 | -18 | 22 | 11/20/2024 | 13:17 | LB133540 |
| | Iron | 101000 | 101000 | 100 | 85600 | 116500 | 11/20/2024 | 13:17 | LB133540 |
| | Lead | 7.49 | | | -12 | 12 | 11/20/2024 | 13:17 | LB133540 |
| | Magnesium | 269000 | 255000 | 106 | 216000 | 294000 | 11/20/2024 | 13:17 | LB133540 |
| | Manganese | 3.17 | 7.0 | 45 | -13 | 27 | 11/20/2024 | 13:17 | LB133540 |
| | Nickel | 2.95 | 2.0 | 148 | -38 | 42 | 11/20/2024 | 13:17 | LB133540 |
| | Potassium | -5.15 | | | 0 | 0 | 11/20/2024 | 13:17 | LB133540 |
| | Selenium | -18.8 | | | -20 | 20 | 11/20/2024 | 13:17 | LB133540 |
| | Silver | -1.10 | | | -10 | 10 | 11/20/2024 | 13:17 | LB133540 |
| | Sodium | -74.9 | | | 0 | 0 | 11/20/2024 | 13:17 | LB133540 |
| | Thallium | -1.13 | | | -40 | 40 | 11/20/2024 | 13:17 | LB133540 |
| | Vanadium | 8.64 | | | -40 | 40 | 11/20/2024 | 13:17 | LB133540 |
| | Zinc | 5.94 | | | -40 | 40 | 11/20/2024 | 13:17 | LB133540 |
| **ICSAB01** | Aluminum | 268000 | 247000 | 108 | 209000 | 285000 | 11/20/2024 | 13:28 | LB133540 |
| | Antimony | 644 | 618 | 104 | 525 | 711 | 11/20/2024 | 13:28 | LB133540 |
| | Arsenic | 118 | 104 | 114 | 88.4 | 120 | 11/20/2024 | 13:28 | LB133540 |
| | Barium | 517 | 537 | 96 | 437 | 637 | 11/20/2024 | 13:28 | LB133540 |
| | Beryllium | 514 | 495 | 104 | 420 | 570 | 11/20/2024 | 13:28 | LB133540 |
| | Cadmium | 1050 | 972 | 108 | 826 | 1120 | 11/20/2024 | 13:28 | LB133540 |
| | Calcium | 244000 | 235000 | 104 | 199000 | 271000 | 11/20/2024 | 13:28 | LB133540 |
| | Chromium | 583 | 542 | 108 | 460 | 624 | 11/20/2024 | 13:28 | LB133540 |
| | Cobalt | 527 | 476 | 111 | 404 | 548 | 11/20/2024 | 13:28 | LB133540 |
| | Copper | 520 | 511 | 102 | 434 | 588 | 11/20/2024 | 13:28 | LB133540 |
| | Iron | 100000 | 99300 | 101 | 84400 | 114500 | 11/20/2024 | 13:28 | LB133540 |
| | Lead | 57.8 | 49.0 | 118 | 37 | 61 | 11/20/2024 | 13:28 | LB133540 |
| | Magnesium | 267000 | 248000 | 108 | 210000 | 286000 | 11/20/2024 | 13:28 | LB133540 |
| | Manganese | 497 | 507 | 98 | 430 | 584 | 11/20/2024 | 13:28 | LB133540 |
| | Nickel | 1040 | 954 | 109 | 810 | 1100 | 11/20/2024 | 13:28 | LB133540 |
| | Potassium | -40.7 | | | 0 | 0 | 11/20/2024 | 13:28 | LB133540 |
| | Selenium | 30.2 | 46.0 | 66 | 26 | 66 | 11/20/2024 | 13:28 | LB133540 |
| | Silver | 206 | 201 | 102 | 170 | 232 | 11/20/2024 | 13:28 | LB133540 |

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

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

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICSAB01 | Sodium | -45.3 | | | 0 | 0 | 11/20/2024 | 13:28 | LB133540 |
| | Thallium | 90.2 | 108 | 84 | 68 | 148 | 11/20/2024 | 13:28 | LB133540 |
| | Vanadium | 510 | 491 | 104 | 417 | 565 | 11/20/2024 | 13:28 | LB133540 |
| | Zinc | 916 | 952 | 96 | 809 | 1095 | 11/20/2024 | 13:28 | LB133540 |

# METAL QC DATA

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Tetra Tech NUS, Inc. **level:** low **sdg no.:** P4868

**contract:** TETR06 **lab code:** CHEM **case no.:** P4868 **sas no.:** P4868

**matrix:** Water **sample id:** P4867-04 **client id:** TT-072-IDWGW-20241113MS

**Percent Solids for Sample:** NA **Spiked ID:** P4867-04MS **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 | 4.34 | | 0.20 | U | 4.0 | 108 | | CV |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Tetra Tech NUS, Inc. **level:** low **sdg no.:** P4868

**contract:** TETR06 **lab code:** CHEM **case no.:** P4868 **sas no.:** P4868

**matrix:** Water **sample id:** P4867-04 **client id:** TT-072-IDWGW-20241113MSD

**Percent Solids for Sample:** NA **Spiked ID:** P4867-04MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 82 - 119 | 3.99 | | 0.20 | U | 4.0 | 100 | | CV |

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Tetra Tech NUS, Inc. **level:** low **sdg no.:** P4868

**contract:** TETR06 **lab code:** CHEM **case no.:** P4868 **sas no.:** P4868

**matrix:** Water **sample id:** P4868-03 **client id:** RW5-SP303-20241114MS

**Percent Solids for Sample:** NA **Spiked ID:** P4868-03MS **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 86 - 115 | 1070 | | 50.0 | U | 1000 | 107 | | P |
| Antimony | ug/L | 88 - 113 | 416 | | 25.0 | U | 400 | 104 | | P |
| Arsenic | ug/L | 87 - 113 | 403 | | 10.0 | U | 400 | 101 | | P |
| Barium | ug/L | 88 - 113 | 103 | | 50.0 | U | 100 | 103 | | P |
| Beryllium | ug/L | 89 - 112 | 99.6 | | 3.00 | U | 100 | 100 | | P |
| Cadmium | ug/L | 88 - 113 | 98.0 | | 3.00 | U | 100 | 98 | | P |
| Calcium | ug/L | 87 - 113 | 5170 | | 4720 | | 500 | 90 | | P |
| Chromium | ug/L | 90 - 113 | 218 | | 4.33 | J | 200 | 107 | | P |
| Cobalt | ug/L | 89 - 114 | 101 | | 1.62 | J | 100 | 100 | | P |
| Copper | ug/L | 86 - 114 | 158 | | 10.0 | U | 150 | 105 | | P |
| Iron | ug/L | 87 - 115 | 1560 | | 46.5 | J | 1500 | 101 | | P |
| Lead | ug/L | 86 - 113 | 475 | | 6.00 | U | 500 | 95 | | P |
| Magnesium | ug/L | 85 - 113 | 2770 | | 1780 | | 1000 | 99 | | P |
| Manganese | ug/L | 90 - 114 | 137 | | 36.2 | | 100 | 101 | | P |
| Nickel | ug/L | 88 - 113 | 249 | | 2.38 | J | 250 | 99 | | P |
| Potassium | ug/L | 86 - 114 | 5780 | | 792 | J | 5000 | 100 | | P |
| Selenium | ug/L | 83 - 114 | 1010 | | 10.0 | U | 1000 | 101 | | P |
| Silver | ug/L | 84 - 115 | 31.9 | | 5.00 | U | 37.5 | 85 | | P |
| Sodium | ug/L | 87 - 115 | 11800 | | 10700 | | 1500 | 73 | | P |
| Thallium | ug/L | 85 - 114 | 1030 | | 20.0 | U | 1000 | 103 | | P |
| Vanadium | ug/L | 90 - 111 | 159 | | 20.0 | U | 150 | 106 | | P |
| Zinc | ug/L | 87 - 115 | 115 | | 9.05 | J | 100 | 106 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Tetra Tech NUS, Inc. **level:** low **sdg no.:** P4868

**contract:** TETR06 **lab code:** CHEM **case no.:** P4868 **sas no.:** P4868

**matrix:** Water **sample id:** P4868-03 **client id:** RW5-SP303-20241114MSD

**Percent Solids for Sample:** NA **Spiked ID:** P4868-03MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 86 - 115 | 1070 | | 50.0 | U | 1000 | 107 | | P |
| Antimony | ug/L | 88 - 113 | 414 | | 25.0 | U | 400 | 104 | | P |
| Arsenic | ug/L | 87 - 113 | 402 | | 10.0 | U | 400 | 100 | | P |
| Barium | ug/L | 88 - 113 | 102 | | 50.0 | U | 100 | 102 | | P |
| Beryllium | ug/L | 89 - 112 | 98.7 | | 3.00 | U | 100 | 99 | | P |
| Cadmium | ug/L | 88 - 113 | 97.0 | | 3.00 | U | 100 | 97 | | P |
| Calcium | ug/L | 87 - 113 | 5110 | | 4720 | | 500 | 78 | | P |
| Chromium | ug/L | 90 - 113 | 217 | | 4.33 | J | 200 | 106 | | P |
| Cobalt | ug/L | 89 - 114 | 101 | | 1.62 | J | 100 | 99 | | P |
| Copper | ug/L | 86 - 114 | 157 | | 10.0 | U | 150 | 105 | | P |
| Iron | ug/L | 87 - 115 | 1570 | | 46.5 | J | 1500 | 101 | | P |
| Lead | ug/L | 86 - 113 | 470 | | 6.00 | U | 500 | 94 | | P |
| Magnesium | ug/L | 85 - 113 | 2750 | | 1780 | | 1000 | 97 | | P |
| Manganese | ug/L | 90 - 114 | 136 | | 36.2 | | 100 | 100 | | P |
| Nickel | ug/L | 88 - 113 | 247 | | 2.38 | J | 250 | 98 | | P |
| Potassium | ug/L | 86 - 114 | 5810 | | 792 | J | 5000 | 100 | | P |
| Selenium | ug/L | 83 - 114 | 1010 | | 10.0 | U | 1000 | 101 | | P |
| Silver | ug/L | 84 - 115 | 32.0 | | 5.00 | U | 37.5 | 85 | | P |
| Sodium | ug/L | 87 - 115 | 12000 | | 10700 | | 1500 | 82 | | P |
| Thallium | ug/L | 85 - 114 | 1050 | | 20.0 | U | 1000 | 105 | | P |
| Vanadium | ug/L | 90 - 111 | 157 | | 20.0 | U | 150 | 105 | | P |
| Zinc | ug/L | 87 - 115 | 116 | | 9.05 | J | 100 | 107 | | P |

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# Metals
## - 5b -

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

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

**Sample ID:** **Spiked ID:**

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

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Matrix:** Water **Sample ID:** P4867-04 **Client ID:** TT-072-IDWGW-20241113DUP

**Percent Solids for Sample:** NA **Duplicate ID** P4867-04DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 20 | 0.20 | U | 0.20 | 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.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Matrix:** Water **Sample ID:** P4867-04MS **Client ID:** TT-072-IDWGW-20241113MSD

**Percent Solids for Sample:** NA **Duplicate ID** P4867-04MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 20 | 4.34 | | 3.99 | | 8 | | 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.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Matrix:** Water **Sample ID:** P4868-03 **Client ID:** RW5-SP303-20241114DUP

**Percent Solids for Sample:** NA **Duplicate ID** P4868-03DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 20 | 50.0 | U | 50.0 | U | | | P |
| Antimony | ug/L | 20 | 25.0 | U | 25.0 | U | | | P |
| Arsenic | ug/L | 20 | 10.0 | U | 10.0 | U | | | P |
| Barium | ug/L | 20 | 50.0 | U | 50.0 | U | | | P |
| Beryllium | ug/L | 20 | 3.00 | U | 3.00 | U | | | P |
| Cadmium | ug/L | 20 | 3.00 | U | 3.00 | U | | | P |
| Calcium | ug/L | 20 | 4720 | | 4740 | | 0 | | P |
| Chromium | ug/L | 20 | 4.33 | J | 4.42 | J | 2 | | P |
| Cobalt | ug/L | 20 | 1.62 | J | 1.70 | J | 5 | | P |
| Copper | ug/L | 20 | 10.0 | U | 10.0 | U | | | P |
| Iron | ug/L | 20 | 46.5 | J | 44.5 | J | 4 | | P |
| Lead | ug/L | 20 | 6.00 | U | 6.00 | U | | | P |
| Magnesium | ug/L | 20 | 1780 | | 1790 | | 1 | | P |
| Manganese | ug/L | 20 | 36.2 | | 36.6 | | 1 | | P |
| Nickel | ug/L | 20 | 2.38 | J | 2.38 | J | 0 | | P |
| Potassium | ug/L | 20 | 792 | J | 807 | J | 2 | | P |
| Selenium | ug/L | 20 | 10.0 | U | 10.0 | U | | | P |
| Silver | ug/L | 20 | 5.00 | U | 5.00 | U | | | P |
| Sodium | ug/L | 20 | 10700 | | 10900 | | 2 | | P |
| Thallium | ug/L | 20 | 20.0 | U | 20.0 | U | | | P |
| Vanadium | ug/L | 20 | 20.0 | U | 20.0 | U | | | P |
| Zinc | ug/L | 20 | 9.05 | J | 9.29 | J | 3 | | 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.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Matrix:** Water **Sample ID:** P4868-03MS **Client ID:** RW5-SP303-20241114MSD

**Percent Solids for Sample:** NA **Duplicate ID** P4868-03MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 20 | 1070 | | 1070 | | 0 | | P |
| Antimony | ug/L | 20 | 416 | | 414 | | 0 | | P |
| Arsenic | ug/L | 20 | 403 | | 402 | | 0 | | P |
| Barium | ug/L | 20 | 103 | | 102 | | 1 | | P |
| Beryllium | ug/L | 20 | 99.6 | | 98.7 | | 1 | | P |
| Cadmium | ug/L | 20 | 98.0 | | 97.0 | | 1 | | P |
| Calcium | ug/L | 20 | 5170 | | 5110 | | 1 | | P |
| Chromium | ug/L | 20 | 218 | | 217 | | 0 | | P |
| Cobalt | ug/L | 20 | 101 | | 101 | | 0 | | P |
| Copper | ug/L | 20 | 158 | | 157 | | 1 | | P |
| Iron | ug/L | 20 | 1560 | | 1570 | | 1 | | P |
| Lead | ug/L | 20 | 475 | | 470 | | 1 | | P |
| Magnesium | ug/L | 20 | 2770 | | 2750 | | 1 | | P |
| Manganese | ug/L | 20 | 137 | | 136 | | 1 | | P |
| Nickel | ug/L | 20 | 249 | | 247 | | 1 | | P |
| Potassium | ug/L | 20 | 5780 | | 5810 | | 1 | | P |
| Selenium | ug/L | 20 | 1010 | | 1010 | | 0 | | P |
| Silver | ug/L | 20 | 31.9 | | 32.0 | | 0 | | P |
| Sodium | ug/L | 20 | 11800 | | 12000 | | 2 | | P |
| Thallium | ug/L | 20 | 1030 | | 1050 | | 2 | | P |
| Vanadium | ug/L | 20 | 159 | | 157 | | 1 | | P |
| Zinc | ug/L | 20 | 115 | | 116 | | 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



### LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB165011BS | | | | | | | |
| Aluminum | ug/L | 1000 | 978 | | 98 | 86 - 115 | P |
| Antimony | ug/L | 400 | 375 | | 94 | 88 - 113 | P |
| Arsenic | ug/L | 400 | 372 | | 93 | 87 - 113 | P |
| Barium | ug/L | 100 | 90.6 | | 91 | 88 - 113 | P |
| Beryllium | ug/L | 100 | 98.3 | | 98 | 89 - 112 | P |
| Cadmium | ug/L | 100 | 92.6 | | 93 | 88 - 113 | P |
| Calcium | ug/L | 500 | 484 | J | 97 | 87 - 113 | P |
| Chromium | ug/L | 200 | 199 | | 100 | 90 - 113 | P |
| Cobalt | ug/L | 100 | 93.7 | | 94 | 89 - 114 | P |
| Copper | ug/L | 150 | 150 | | 100 | 86 - 114 | P |
| Iron | ug/L | 1500 | 1400 | | 93 | 87 - 115 | P |
| Lead | ug/L | 500 | 468 | | 94 | 86 - 113 | P |
| Magnesium | ug/L | 1000 | 954 | J | 95 | 85 - 113 | P |
| Manganese | ug/L | 100 | 94.5 | | 94 | 90 - 114 | P |
| Nickel | ug/L | 250 | 235 | | 94 | 88 - 113 | P |
| Potassium | ug/L | 5000 | 4630 | | 93 | 86 - 114 | P |
| Selenium | ug/L | 1000 | 962 | | 96 | 83 - 114 | P |
| Silver | ug/L | 37.5 | 36.7 | | 98 | 84 - 115 | P |
| Sodium | ug/L | 1500 | 1320 | | 88 | 87 - 115 | P |
| Thallium | ug/L | 1000 | 965 | | 96 | 85 - 114 | P |
| Vanadium | ug/L | 150 | 145 | | 97 | 90 - 111 | P |
| Zinc | ug/L | 100 | 101 | | 101 | 87 - 115 | P |

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## Metals

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### LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB165066BS | | | | | | | |
| Mercury | ug/L | 4.0 | 3.42 | | 86 | 82 - 119 | CV |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

TT-072-IDWGW-20241113L

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

**Lab Code:** CHEM **Lb No.:** lb133490 **Lab Sample ID :** P4867-04L **SDG No.:** P4868

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

**Concentration Units:** ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 1.00 | U | | | CV |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

RW5-SP303-20241114L

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

**Lab Code:** CHEM **Lb No.:** lb133502 **Lab Sample ID :** P4868-03L **SDG No.:** P4868

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

**Concentration Units:** ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Aluminum | 50.0 | U | 250 | U | | | P |
| Antimony | 25.0 | U | 125 | U | | | P |
| Arsenic | 10.0 | U | 50.0 | U | | | P |
| Barium | 50.0 | U | 250 | U | | | P |
| Beryllium | 3.00 | U | 15.0 | U | | | P |
| Cadmium | 3.00 | U | 15.0 | U | | | P |
| Calcium | 4720 | | 4770 | J | 1 | | P |
| Chromium | 4.33 | J | 4.27 | J | 2 | | P |
| Cobalt | 1.62 | J | 75.0 | U | 100.0 | | P |
| Copper | 10.0 | U | 50.0 | U | | | P |
| Iron | 46.5 | J | 250 | U | 100.0 | | P |
| Lead | 6.00 | U | 30.0 | U | | | P |
| Magnesium | 1780 | | 1810 | J | 2 | | P |
| Manganese | 36.2 | | 37.3 | J | 3 | | P |
| Nickel | 2.38 | J | 100 | U | 100.0 | | P |
| Potassium | 792 | J | 5000 | U | 100.0 | | P |
| Selenium | 10.0 | U | 50.0 | U | | | P |
| Silver | 5.00 | U | 25.0 | U | | | P |
| Sodium | 10700 | | 9520 | | 11 | | P |
| Thallium | 20.0 | U | 100 | U | | | P |
| Vanadium | 20.0 | U | 100 | U | | | P |
| Zinc | 9.05 | J | 10.1 | J | 11 | | P |

# METAL PREPARATION & INSTRUMENT DATA

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

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

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

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

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

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

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

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

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

**Contract:** TETR06 **Lab Code:** CHEM **Case No.:** P4868 **SAS No.:** P4868

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

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

# METAL PREPARATION & ANALYICAL SUMMARY

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

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

**Case No.:** P4868 **SAS No.:** P4868

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB165011** | | | | | | |
| P4868-01 | RW5-SP100-20241114 | SAM | WATER | 11/15/2024 | 50.0 | 25.0 | |
| P4868-03 | RW5-SP303-20241114 | SAM | WATER | 11/15/2024 | 50.0 | 25.0 | |
| P4868-03DUP | RW5-SP303-20241114DUP | DUP | WATER | 11/15/2024 | 50.0 | 25.0 | |
| P4868-03MS | RW5-SP303-20241114MS | MS | WATER | 11/15/2024 | 50.0 | 25.0 | |
| P4868-03MSD | RW5-SP303-20241114MSD | MSD | WATER | 11/15/2024 | 50.0 | 25.0 | |
| PB165011BL | PB165011BL | MB | WATER | 11/15/2024 | 50.0 | 25.0 | |
| PB165011BS | PB165011BS | LCS | WATER | 11/15/2024 | 50.0 | 25.0 | |

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** P4868

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

**Case No.:** P4868 **SAS No.:** P4868

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB165066** | | | | | | |
| P4867-04DUP | TT-072-IDWGW-20241113DUP | DUP | WATER | 11/18/2024 | 30.0 | 30.0 | |
| P4867-04MS | TT-072-IDWGW-20241113MS | MS | WATER | 11/18/2024 | 30.0 | 30.0 | |
| P4867-04MSD | TT-072-IDWGW-20241113MSD | MSD | WATER | 11/18/2024 | 30.0 | 30.0 | |
| P4868-01 | RW5-SP100-20241114 | SAM | WATER | 11/18/2024 | 30.0 | 30.0 | |
| P4868-03 | RW5-SP303-20241114 | SAM | WATER | 11/18/2024 | 30.0 | 30.0 | |
| PB165066BL | PB165066BL | MB | WATER | 11/18/2024 | 30.0 | 30.0 | |
| PB165066BS | PB165066BS | LCS | WATER | 11/18/2024 | 30.0 | 30.0 | |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

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

**Lab code:** CHEM **Case no.:** P4868 **Sas no.:** P4868 **Sdg no.:** P4868

**Instrument id number:** **Method:** **Run number:** LB133490

**Start date:** 11/18/2024 **End date:** 11/18/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1323 | HG |
| S0.2 | S0.2 | 1 | 1325 | HG |
| S2.5 | S2.5 | 1 | 1328 | HG |
| S5 | S5 | 1 | 1330 | HG |
| S7.5 | S7.5 | 1 | 1332 | HG |
| S10 | S10 | 1 | 1343 | HG |
| ICV89 | ICV89 | 1 | 1346 | HG |
| ICB89 | ICB89 | 1 | 1348 | HG |
| CCV01 | CCV01 | 1 | 1353 | HG |
| CCB01 | CCB01 | 1 | 1358 | HG |
| CRA | CRA | 1 | 1400 | HG |
| CCV02 | CCV02 | 1 | 1426 | HG |
| CCB02 | CCB02 | 1 | 1428 | HG |
| PB165066BL | PB165066BL | 1 | 1443 | HG |
| PB165066BS | PB165066BS | 1 | 1445 | HG |
| P4867-04DUP | TT-072-IDWGW-20241113DUP | 1 | 1454 | HG |
| P4867-04MS | TT-072-IDWGW-20241113MS | 1 | 1457 | HG |
| CCV03 | CCV03 | 1 | 1459 | HG |
| CCB03 | CCB03 | 1 | 1501 | HG |
| P4867-04MSD | TT-072-IDWGW-20241113MSD | 1 | 1503 | HG |
| P4868-01 | RW5-SP100-20241114 | 1 | 1506 | HG |
| P4868-03 | RW5-SP303-20241114 | 1 | 1508 | HG |
| P4867-04L | TT-072-IDWGW-20241113L | 5 | 1517 | HG |
| CCV04 | CCV04 | 1 | 1522 | HG |
| CCB04 | CCB04 | 1 | 1524 | HG |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

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

**Lab code:** CHEM **Case no.:** P4868 **Sas no.:** P4868 **Sdg no.:** P4868

**Instrument id number:** **Method:** **Run number:** LB133502

**Start date:** 11/18/2024 **End date:** 11/18/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1231 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S1 | S1 | 1 | 1236 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S2 | S2 | 1 | 1240 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S3 | S3 | 1 | 1244 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S4 | S4 | 1 | 1249 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S5 | S5 | 1 | 1253 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICV01 | ICV01 | 1 | 1257 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| LLICV01 | LLICV01 | 1 | 1311 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICB01 | ICB01 | 1 | 1315 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CRI01 | CRI01 | 1 | 1320 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSA01 | ICSA01 | 1 | 1330 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSAB01 | ICSAB01 | 1 | 1342 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV01 | CCV01 | 1 | 1352 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB01 | CCB01 | 1 | 1402 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV02 | CCV02 | 1 | 1431 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB02 | CCB02 | 1 | 1435 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV03 | CCV03 | 1 | 1535 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB03 | CCB03 | 1 | 1539 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4868-01 | RW5-SP100-20241114 | 1 | 1608 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4868-03 | RW5-SP303-20241114 | 1 | 1612 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4868-03DUP | RW5-SP303-20241114DUP | 1 | 1616 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4868-03MSD | RW5-SP303-20241114MSD | 1 | 1621 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV04 | CCV04 | 1 | 1625 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB04 | CCB04 | 1 | 1629 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4868-03L | RW5-SP303-20241114L | 5 | 1641 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4868-03MS | RW5-SP303-20241114MS | 1 | 1646 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV05 | CCV05 | 1 | 1701 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB05 | CCB05 | 1 | 1706 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV06 | CCV06 | 1 | 1804 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB06 | CCB06 | 1 | 1808 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV07 | CCV07 | 1 | 1854 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB07 | CCB07 | 1 | 1858 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |

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



**metals**
**- 14 -**
**ANALYSIS RUN LOG**

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

**Lab code:** CHEM **Case no.:** P4868 **Sas no.:** P4868 **Sdg no.:** P4868

**Instrument id number:** **Method:** **Run number:** LB133540

**Start date:** 11/20/2024 **End date:** 11/20/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1217 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S1 | S1 | 1 | 1222 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S2 | S2 | 1 | 1226 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S3 | S3 | 1 | 1230 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S4 | S4 | 1 | 1235 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S5 | S5 | 1 | 1239 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICV01 | ICV01 | 1 | 1250 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| LLICV01 | LLICV01 | 1 | 1259 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICB01 | ICB01 | 1 | 1309 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CRI01 | CRI01 | 1 | 1313 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSA01 | ICSA01 | 1 | 1317 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSAB01 | ICSAB01 | 1 | 1328 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV01 | CCV01 | 1 | 1335 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB01 | CCB01 | 1 | 1346 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV02 | CCV02 | 1 | 1450 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB02 | CCB02 | 1 | 1500 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB165011BL | PB165011BL | 1 | 1639 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB165011BS | PB165011BS | 1 | 1644 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV03 | CCV03 | 1 | 1648 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB03 | CCB03 | 1 | 1652 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |

# 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: P4868

COC Number:

## CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Ln, Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

## PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: RW5B
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie,wu@tetratech.com
PHONE: 757-466-4901 FAX: 757-461-4148

## BILLING INFORMATION

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

## DATA TURNAROUND INFORMATION

FAX: 5 day 1,4-D, 10-day others DAYS*
HARD COPY: 5 day 1,4-D, 10-day others DAYS*
EDD 5 day 1,4-D, 10-day others 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 |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane SW846 8270 SIM | TAL Metals SW846 6010D/7471A | TCL SVOC 8270 SIM | | | | | | |

## PRESERVATIVES

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | B | | | | | | | |

## COMMENTS

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

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # of Bottles | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | RW5-SP100-20241114 | GW | | x | 11/14/24 | 12:45 | 3 | x | x | x | | | | | | |
| 2. | RW5-SP201-20241114 | GW | | x | 11/14/24 | 12:47 | 1 | x | | | | | | | | |
| 3. | RW5-SP303-20241114 | GW | | x | 11/14/24 | 12:53 | 3 | x | x | x | | | | | | |
| 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. | 11/14/24 1538 | 1. 1533 11-14-24 |
| RELINQUISHED BY | DATE/TIME | RECEIVED BY |
| 2. | | 2. |
| RELINQUISHED BY | DATE/TIME | RECEIVED FOR LAB BY |
| 3. | 1830 11-14-24 | 3. |

**Conditions of bottles or coolers at receipt:** ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.4°
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?:
**Comments:**

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 |