

Cover Page

- **Order ID :** Q1121
- Project ID : NWIRP Bethpage 112G08005-WE13
 - **Client :** Tetra Tech NUS, Inc.

Lab Sample Number

Client Sample Number

Q1121-01

RW10A-20250116

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

Signature :

Date: 1/24/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



CASE NARRATIVE

Tetra Tech NUS, Inc. Project Name: NWIRP Bethpage 112G08005-WE13 Project Manager: Ernie Wu Chemtech Project # Q1121 Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

1 Water sample was received on 01/16/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOCMS Group1 was based on method 8260-Low.

D. QA/ QC Samples:

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

E. Additional Comments:

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

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

Trip Blank was not provided with this set of samples.

The not QT review data is reported in the Miscellaneous.



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

F. Manual Integration Comments:

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

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Signature_____



CASE NARRATIVE

Tetra Tech NUS, Inc. Project Name: NWIRP Bethpage 112G08005-WE13 Project Manager: Ernie Wu Chemtech Project # Q1121 Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

1 Water sample was received on 01/16/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. 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 PB166108BL [2-Fluorobiphenyl - 107%, Nitrobenzene-d5 - 123%], PB166108BS [Nitrobenzene-d5 - 133%], PB166108BSD [2-Fluorobiphenyl - 107%, Nitrobenzene-d5 - 126%] and RW10A-20250116 [Nitrobenzene-d5 - 118%], failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration File ID BN035991.D met the requirements except for 2,4,6-Tribromophenol and Nitrobenzene-d5, failure surrogates are not associated with the client list, as per criteria affected surrogates were passing; therefore no corrective action was taken.



The Tuning criteria met requirements.

E. Additional Comments:

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

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The 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 <15% 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 > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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

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Signature_____



DATA REPORTING QUALIFIERS- ORGANIC

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

| Value | If the result is a value greater than or equal to the detection limit, report the value |
|-------|--|
| U | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| ND | Indicates the analyte was analyzed for, but not detected |
| J | Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| В | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| Ε | 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. |
| Р | 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". |
| Ν | 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. |
| Α | This flag indicates that a Tentatively Identified Compound is a suspected aldol- condensation product. |
| Q | Indicates the LCS did not meet the control limits requirements |



APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1121

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) | <u> </u> |
| Check chain-of-custody for proper relinquish/return of samples | ✓ ✓ ✓ ✓ |
| Is the chain of custody signed and complete | <u>✓</u> |
| Check internal chain-of-custody for proper relinquish/return of samples /sample extracts | <u>✓</u> |
| Collect information for each project id from server. Were all requirements followed | <u>✓</u> |
| COVER PAGE: | |
| Do numbers of samples correspond to the number of samples in the Chain of Custody on login page | <u>✓</u> |
| Do lab numbers and client Ids on cover page agree with the Chain of Custody | <u>✓</u> |
| CHAIN OF CUSTODY: | |
| Do requested analyses on Chain of Custody agree with form I results | <u>✓</u> |
| 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 | <u>✓</u> |
| Were the samples received within hold time | <u>✓</u> |
| Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle | <u> </u> |
| ANALYTICAL: | |
| Was method requirement followed? | <u>✓</u> |
| Was client requirement followed? | <u> </u> |
| Does the case narrative summarize all QC failure? | <u>✓</u> |
| All runlogs and manual integration are reviewed for requirements | |
| All manual calculations and /or hand notations verified | <u>✓</u> |

QA Review Signature: SOHIL JODHANI