284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : Q3165

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q3165-01	BP-VPB-184-TB-20250919
Q3165-02	VPB184-HYD-20250919
Q3165-03	BP-VPB-184-GW-240-242
Q3165-04	BP-VPB-184-GW-260-262
Q3165-05	BP-VPB-184-GW-280-282
Q3165-06	BP-VPB-184-DUP-20250922
Q3165-07	BP-VPB-184-GW-300-302
Q3165-08	BP-VPB-184-GW-320-322
Q3165-09	Q3165-08MS
Q3165-10	Q3165-08MSD

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: 10/4/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager: Ernie Wu
Order ID # Q3165
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
10 Water samples were received on 09/22/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for BP-VPB-184-GW-320-322MSD [1,2-Dichloroethane-d4 - 124%] but original sample and MS passing for surrogate therefore no corrective action taken.

The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.
The MS recoveries met the requirements for all compounds.

The MSD {Q3165-10MSD} with File ID: VX047822.D recoveries met the requirements for all compounds except for 1,1,2,2-Tetrachloroethane[153%], 1,1,2-Trichloroethane[129%], 1,1-Dichloroethane[130%], 1,2-Dibromo-3-Chloropropane[137%], 1,2-Dibromoethane[127%], 2-Butanone[144%], 4-Methyl-2-Pentanone[140%], Bromochloromethane[133%], Carbon Tetrachloride[71%], Chloroform[139%], cis-1,2-Dichloroethene[127%], Methyl tert-butyl Ether[136%], Methylcyclohexane[54%] and Methylene Chloride[134%]due to matrix interference.

The sample # BP-VPB-184-GW-320-322MS and BP-VPB-184-GW-320-322MSD is failing for some compounds and the original sample(BP-VPB-184-GW-320-322) is reported with M flag for these compounds.

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The RPD for {Q3165-10MSD} with File ID: VX047822.D met criteria except for 1,1,2,2-Tetrachloroethane[45%], 1,1,2-Trichloroethane[23%], 1,2-Dibromo-3-Chloropropane[39%], 1,2-Dichlorobenzene[23%], 1,2-Dichloroethane[21%], 2-Butanone[29%], 2-Hexanone[27%], 4-Methyl-2-Pentanone[22%], Acetone[23%], Bromomethane[23%], Carbon Tetrachloride[26%], Chloroethane[22%], Chloroform[25%], Chloromethane[24%], Cyclohexane[22%], Methyl Acetate[30%], Methyl tert-butyl Ether[26%], Methylcyclohexane[39%] and Methylene Chloride[24%] due to difference in results of MS-MSD.

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

The Continuous Calibration File ID VX047795.D met the requirements except for Dichlorodifluoromethane and Methyl Acetate failing high but no positive hit in associated samples 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 Sample #BP-VPB-184-GW-260-262 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The not QT review data is reported in the Miscellaneous.

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: NWIRP Bethpage 112G08005-WE13
Project Manager : Ernie Wu
Order ID # Q3165
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
3 Water samples were received on 09/22/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1. 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-GGA. The 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 were met for all analysis except for,
VPB184-HYD-20250919 [2-Methylnaphthalene-d10 - 1%, Fluoranthene-d10 - 16%].
Surrrogates are failed due to matrix interference as seen in the chromatogram.Therefor no corrective action was taken.

The Internal Standards Areas were met for all analysis except for,
BP-VPB-184-GW-260-262, BP-VPB-184-GW-300-302. Failed internal standard are not associated with reporting list, therefor no further corrective action was taken.
The Retention Times were met for all analysis.

The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
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.

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E. Additional Comments:

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

The Sample VPB184-HYD-20250919 has the concentration of target compound below Method detection limit; therefore it is not reported as Hit in Form1.

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

F. Manual Integration Comments:

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

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Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q3165**

	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:** **10/04/2025**