

## **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.

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.

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

Signature\_\_\_\_\_



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