

## Cover Page

**Order ID :** Q2480

**Project ID :** Lexington

**Client :** G Environmental

**Lab Sample Number**

Q2480-01  
Q2480-02  
Q2480-03  
Q2480-04  
Q2480-05  
Q2480-06  
Q2480-07  
Q2480-08

**Client Sample Number**

GPX1  
GPX2  
GPX3  
GPX4  
GPX5  
GPX6  
GPX7  
GPX8

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: 7/15/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

### **G Environmental**

**Project Name: Lexington**

**Project # N/A**

**Order ID # Q2480**

**Test Name: VOC-TCLVOA-10**

### **A. Number of Samples and Date of Receipt:**

8 Solid samples were received on 07/01/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: EPH\_NF, VOC-PP, VOC-PP VOA + 15 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA\_W were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. 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 performed on instrument MSVOA\_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. 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 met the acceptable criteria except for GPX2 [4-Bromofluorobenzene - 226%, Toluene-d8 - 163%], GPX6 [4-Bromofluorobenzene - 286%, Toluene-d8 - 219%], GPX7 [4-Bromofluorobenzene - 201% and Toluene-d8 - 209%] Due to high concentration of compounds, this sample required dilution. Therefore, sample was reanalyzed with dilution and reported, while for GPX3RE [Toluene-d8 - 72%] sample was reanalyzed to confirm the failure and reported.

The Internal Standards Areas met the acceptable requirements except for GPX3RE, 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 {VW0709SBS01} with File ID: VW031769.D met requirements for all samples except for cis-1,2-Dichloroethene[124%], Methylene Chloride[176%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for { VX0710MBS01 } with File ID: VX046953.D met requirements for all samples except for Bromomethane[55%] failing biased low but associate CCAL passing for failing analyte and also sample having no positive hit for Bromomethane therefore no corrective action taken.

The Blank Spike for { VX0714MBS01 } with File ID: VX046964.D met requirements for all samples except for 2-Butanone[135%], 2-Hexanone[141%] and 4-Methyl-2-Pentanone[136%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for { VY0707SBS01 } with File ID: VY022948.D met requirements for all samples except for Methylene Chloride[142%] is failing high and associate sample having hit of Methylene Chloride but below CRQL therefore no corrective action taken.

The Blank Spike for { VY0708SBS01 } with File ID: VY022970.D met requirements for all samples except for Methylene Chloride[149%] is failing high and associate sample having positive hit of Methylene Chloride therefore as corrective action lab reanalyzed and reported both run.

The Blank Spike Duplicate met requirements for all samples .  
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82W063025S.M) for Methylene Chloride passing on Quadratic Regression.

The Continuous Calibration File ID VX046933.D met the requirements except for 2-Hexanone and Methyl Acetate are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VX046961.D met the requirements except for 1,2-Dibromo-3-Chloropropane, 2-Butanone, 2-Hexanone, 4-Methyl-2-Pentanone, Methyl Acetate and Methyl tert-butyl Ether are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Samples GPX5, GPX8 were directly analyzed in methanol as per past history of the samples.

Samples GPX2, GPX4, GPX6 and GPX7 were diluted due to high concentrations.

**E. Additional Comments:**

The Sample #GPX1, GPX5, GPX6ME , GPX7ME, GPX8 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.



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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 soil samples results are based on a dry weight basis.

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

**F. Manual Integration Comments:**

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

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## **CASE NARRATIVE**

### **G Environmental**

**Project Name: Lexington**

**Project # N/A**

**Order ID # Q2480**

**Test Name: EPH\_NF**

### **A. Number of Samples and Date of Receipt:**

8 Solid samples were received on 07/01/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: EPH\_NF, VOC-PP, VOC-PP VOA + 15 and VOC-TCLVOA-10. This data package contains results for EPH\_NF.

### **C. Analytical Techniques:**

The analysis were performed on instrument FID\_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224. The analysis were performed on instrument FID\_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224. The analysis of EPH\_NFs was based on method NJEPH and extraction was done based on method 3541.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Retention Times were acceptable for all samples.

The MS {Q2478-01MS} with File ID: FC069361.D recoveries met the requirements for all compounds except for [n-Hexatriacontane (C36) - 142%], [n-Octatriacontane (C38)- 195%], [n-Tetracontane (C40) -141%] due to matrix interference.

The MS {Q2478-01MSD} with File ID: FC069362.D recoveries met the requirements for all compounds except for [n-Hexatriacontane (C36) - 188%], [n-Octatriacontane (C38)- 168%], [n-Tetracontane (C40) -146%] due to matrix interference

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 .

Sample GPX5 was diluted due to high concentration.



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**E. Additional Comments:**

The soil samples results are based on a dry weight basis.

**F. Manual Integration Comments:**

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

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## 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 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  |

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q2480

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 Custody

✓

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: 07/15/2025