

Cover Page

Order ID : Q1914

Project ID : Con Ed UTEN Mount Vernon, NY

Client : CDM Smith

Lab Sample Number

Q1914-01
Q1914-02
Q1914-03
Q1914-04
Q1914-05
Q1914-06
Q1914-07
Q1914-08
Q1914-09
Q1914-10
Q1914-11
Q1914-12
Q1914-14

Client Sample Number

SS-1
SS-91
SS-2
SS-3
SS-4
SS-5
SS-6
SS-7
SS-8
Q1914-09MS
Q1914-09MSD
SS-9
FB04282025

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: 5/13/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

CDM Smith

Project Name: Con Ed UTEN Mount Vernon, NY

Project # N/A

Order ID # Q1914

Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:

12 Solid samples were received on 04/29/2025.

1 Water sample was received on 04/29/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOCMS Group3 and VOCMS Group3. This data package contains results for VOCMS Group3.

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 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 VOCMS Group3 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 SS-8 [4-Bromofluorobenzene - 447%, Toluene-d8 - 208%], SS-8MS [4-Bromofluorobenzene - 518%, Toluene-d8 - 225%], SS-8MSD [4-Bromofluorobenzene - 336% and Toluene-d8 - 154%], MS and MSD surrogate failure confirm with parent sample.

The Internal Standards Areas met the acceptable requirements except for SS-6, SS-8, Due to high concentration of compounds, these samples required dilution. Therefore, samples Were reanalyzed with dilution and reported.

The Retention Times were acceptable for all samples.

The MS {Q1914-10MS} with File ID: VY022115.D recoveries met the requirements for all compounds except for 1,2,4-Trimethylbenzene[732%], 1,3,5-Trimethylbenzene[707%], Ethyl Benzene[1566%], Isopropylbenzene[202%], n-Butylbenzene[202%], N-propylbenzene[379%], Sec-butylbenzene[227%], m/p-Xylenes [2399%], o-Xylene [4040%] and Toluene[455%], due to bad Sample matrix interference.



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The MSD {Q1914-11MSD} with File ID: VY022116.D recoveries met the acceptable requirements except for 1,2,4-Trimethylbenzene[343%], 1,3,5-Trimethylbenzene[314%], Ethyl Benzene[914%], Isopropylbenzene[-257%], n-Butylbenzene[0%], N-propylbenzene[0%], p-Isopropyltoluene[0%], Sec-butylbenzene[-57%], m/p-Xylenes [1857%], o-Xylene [2857%] and Toluene[-571%], due to bad sample matrix interference.

The RPD for {Q1914-11MSD} with File ID: VY022116.D met criteria except for 1,2,4-Trimethylbenzene[72%], 1,3,5-Trimethylbenzene[77%], Benzene[24%], Ethyl Benzene[53%], Isopropylbenzene[1669%], Sec-butylbenzene[334%], tert-Butylbenzene[34%], m/p-Xylenes[25%], o-Xylene[34%], N-propylbenzene [200%], p-Isopropyltoluene [200%], n-Butylbenzene [200%] and Toluene[1769%], due to difference in results of MS and MSD.

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 VX045985.D met the requirements except for n-Butylbenzene, is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Samples SS-5, SS-6, SS-6ME, SS-7, SS-8 and SS-8ME were diluted due to high concentrations.

Sample SS-7 analyzed at straight medium level as sample was bad and highly contaminated and required further dilution analysis therefore as a precautionary measure no low level analysis performed for the sample.

E. Additional Comments:

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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Signature_____

CASE NARRATIVE

CDM Smith

Project Name: Con Ed UTEN Mount Vernon, NY

Project # N/A

Order ID # Q1914

Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

12 Solid samples were received on 04/29/2025.

1 Water sample was received on 04/29/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOCMS Group3 and VOCMS Group3. This data package contains results for SVOCMS Group3.

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 df. The samples were analyzed on instrument BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GG. The samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GG. The analysis of SVOCMS Group3 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 SS-8 [Nitrobenzene-d5 - 138%]. AS per method one Base surrogate is allowed to fail, Therefore no corrective action required.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q1914-10MS} with File ID: BM050083.D recoveries met the requirements for all compounds except for Acenaphthene[67%], Acenaphthylene[72%] and Naphthalene[67%] due to matrix interference.

The MSD {Q1914-11MSD} with File ID: BM050084.D recoveries met the acceptable requirements except for Acenaphthylene[78%] 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 .



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The Tuning criteria met requirements.

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

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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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 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 #: Q1914

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: 05/13/2025