

## Cover Page

**Order ID :** Q2161

**Project ID :** NYC DOT Harper Street Yard North

**Client :** Scalamandre – Tully JV

**Lab Sample Number**

Q2161-01  
Q2161-02

**Client Sample Number**

B27-SOIL-SAMPLE  
B28-SOIL-SAMPLE

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: 6/13/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**Scalamandre – Tully JV**

**Project Name: NYC DOT Harper Street Yard North**

**Project # N/A**

**Order ID # Q2161**

**Test Name: VOCMS Group1**

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

2 Solid samples were received on 05/13/2025.

### **B. Parameters**

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

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

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 Group1 was based on method 8260D.

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

The Holding Times were not met for samples B27-SOIL-SAMPLE and B28-SOIL-SAMPLE, as samples activated out of hold.

The Surrogate recoveries met the acceptable criteria except for, B27-SOIL-SAMPLE [Dibromofluoromethane - 42%], as VIAL A analyzed but did not purge as a corrective action VIAL B analyzed but surrogate Fail, therefore VIAL B reported as final analysis While,

For B28-SOIL-SAMPLE [1,2-Dichloroethane-d4 - 54%, Dibromofluoromethane - 42%], VIAL A analyzed but Surrogate Fail as a corrective action VIAL B analyzed but did not purge therefore VIAL A reported as final analysis.

The Internal Standards Areas met the acceptable requirements except for, B27-SOIL-SAMPLE VIAL A analyzed but did not purge as a corrective action VIAL B analyzed but Internal standard Fail, therefore VIAL B reported as final analysis While,

For B28-SOIL-SAMPLE VIAL A analyzed but Internal standard Fail, as a corrective action VIAL B analyzed but did not purge therefore VIAL A reported as final analysis.

The Retention Times were acceptable for all samples.



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The RPD for { VY0530SBS01 } with File ID: VY022475.D met criteria except for Chloromethane[26%], Due to difference in results of BS- BSD.

The Blank Spike for { VY0530SBS01 } with File ID: VY022474.D met requirements for all samples except for Bromomethane[144%], Chloroethane[136%], failing high but no positive hit in associated samples therefore no corrective action taken.

The Blank Spike Duplicate for { VY0530SBS01 } with File ID: VY022475.D met requirements for all samples except for Chloroethane[131%], failing high but no positive hit in associated samples therefore no corrective action taken.

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

The Continuous Calibration File ID VY022472.D met the requirements except for Acetone, 2-Butanone failing high but no positive hit in associated samples therefore no corrective action taken.

The Tuning criteria met requirements.

**E. Additional Comments:**

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**

**Scalamandre – Tully JV**

**Project Name: NYC DOT Harper Street Yard North**

**Project # N/A**

**Order ID # Q2161**

**Test Name: SVOCMS Group1**

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

2 Solid samples were received on 05/13/2025.

### **B. Parameters**

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

### **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\_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 Group1 was based on method 8270E and extraction was done based on method 3541.

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

The Holding Times were not met for samples B27-SOIL-SAMPLE and B28-SOILSAMPLE, as samples activated out of hold.

The Surrogate recoveries met the acceptable criteria except for B28-SOIL-SAMPLE [2,4,6-Tribromophenol - 7% and 2-Fluorophenol - 17%], are marginally biased low due to matrix interference, Therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike for {PB168234BS} with File ID: BF142726.D met requirements for all samples except for 3,3-Dichlorobenzidine[38%], was marginally biased low Therefore no corrective action was taken.

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



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The Initial Calibration (8270-BP060625.M) for 2,4-Dinitrophenol, 4-Nitrophenol these compound are passing on Linear Regression.

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Sample B27-SOIL-SAMPLE was directly diluted with 2X due to bad matrix of the sample and presence of nontargeted hydrocarbons .

**E. Additional Comments:**

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 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 #: Q2161

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: PRATHA PARGHI

Date: 06/13/2025