

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS

PROJECT NAME : FORMER SCHLUMBERGER STC PTC SITE D3868221

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : Q2249

ATTENTION : John Ynfante



Laboratory Certification ID # 20012



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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

1

Laboratory Name : Alliance Technical Group Client : JACOBS Engineering Group, Inc.
 LLCProject Location : Princeton Junction Project Number : D3868221
 Laboratory Sample ID(s) : Q2249 Sampling Date(s) : 06/05/2025
 List DKQP Methods Used (e.g., 8260,8270, et Cetra) **8260D**

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified handling, preservation, and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (4±2° C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b)Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was “No” (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is “No”, the data package does not meet the requirements for “Data of Known Quality.”

Cover Page

Order ID : Q2249

Project ID : Former Schlumberger STC PTC Site D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

Q2249-01

Client Sample Number

MW-06-6.5-060525

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: 6/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger STC PTC Site D3868221

Project # N/A

Order ID # Q2249

Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:

1 Water sample was received on 06/05/2025.

B. Parameters

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

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 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.

The Internal Standards Areas met the acceptable requirements except for MW-06-6.5-060525, MW-06-6.5-060525RE, sample was reanalyzed to confirm the failure and reported.

The Retention Times were acceptable for all samples.

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 File ID VX046657.D met the requirements except for Vinyl Chloride is failing marginally low while 1,2-Dichloroethane-d4 which is not our target compound, therefore no corrective action taken.

The Tuning criteria met requirements.

Sample MW-06-6.5-060525 was diluted at straight dilution after checking past history of this sample.

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.

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.

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_____

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 #: Q2249

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: 06/17/2025

Hit Summary Sheet
SW-846

SDG No.: Q2249
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW-06-6.5-060525							
Q2249-01	MW-06-6.5-060525	Water	cis-1,2-Dichloroethene	14.2		1.90	10.0	ug/L
Q2249-01	MW-06-6.5-060525	Water	Trichloroethene	1300		0.93	10.0	ug/L
Q2249-01	MW-06-6.5-060525	Water	Tetrachloroethene	11.9		2.30	10.0	ug/L
			Total Voc :	1330				
			Total Concentration:	1330				
Client ID:	MW-06-6.5-060525RE							
Q2249-01RE	MW-06-6.5-060525	Water	cis-1,2-Dichloroethene	12.6		1.90	10.0	ug/L
Q2249-01RE	MW-06-6.5-060525	Water	Trichloroethene	1000		0.93	10.0	ug/L
Q2249-01RE	MW-06-6.5-060525	Water	Tetrachloroethene	8.10	J	2.30	10.0	ug/L
			Total Voc :	1020				
			Total Concentration:	1020				



SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-06-6.5-060525	SDG No.:	Q2249
Lab Sample ID:	Q2249-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046644.D	10		06/11/25 17:53	VX061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	10.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	10.0	ug/L
75-34-3	1,1-Dichloroethane	2.30	U	2.30	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	14.2		1.90	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	2.00	U	2.00	10.0	ug/L
71-43-2	Benzene	1.50	U	1.50	10.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	10.0	ug/L
79-01-6	Trichloroethene	1300		0.93	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.10	U	2.10	10.0	ug/L
127-18-4	Tetrachloroethene	11.9		2.30	10.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.5		70 (74) - 130 (125)	85%	SPK: 50
1868-53-7	Dibromofluoromethane	42.5		70 (75) - 130 (124)	85%	SPK: 50
2037-26-5	Toluene-d8	53.4		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.5		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	114000	5.574			
540-36-3	1,4-Difluorobenzene	228000	6.775			
3114-55-4	Chlorobenzene-d5	237000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	125000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-06-6.5-060525RE	SDG No.:	Q2249
Lab Sample ID:	Q2249-01RE	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046661.D	10		06/12/25 14:04	VX061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	10.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	10.0	ug/L
75-34-3	1,1-Dichloroethane	2.30	U	2.30	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	12.6		1.90	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	2.00	U	2.00	10.0	ug/L
71-43-2	Benzene	1.50	U	1.50	10.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	10.0	ug/L
79-01-6	Trichloroethene	1000		0.93	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.10	U	2.10	10.0	ug/L
127-18-4	Tetrachloroethene	8.10	J	2.30	10.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.9		70 (74) - 130 (125)	92%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	52.9		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.8		70 (77) - 130 (121)	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	131000	5.556			
540-36-3	1,4-Difluorobenzene	257000	6.769			
3114-55-4	Chlorobenzene-d5	263000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	135000	12.018			

U = Not Detected

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MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

LAB CHRONICLE

OrderID:	Q2249	OrderDate:	6/5/2025 4:19:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	--Select--,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2249-01	MW-06-6.5-060525	Water	VOCMS Group3	8260-Low	06/05/25		06/11/25	06/05/25
Q2249-01RE	MW-06-6.5-060525RE	Water	VOCMS Group3	8260-Low	06/05/25		06/12/25	06/05/25



SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt. Kemble Ave., Suite 100
CITY: Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yinfante John.Yinfante@Jacobs.com
PHONE: FAX:

PROJECT NAME: STC Princeton
PROJECT NO.: D386822-1 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX (RUSH) Rush 7-Day TAT (5 business days) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

Site Specific Voc's
(B160H-1-001)

1 2 3 4 5 6 7 8 9

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		F/E										← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
1.	MW-06-605-060525	GW		X	6/5/25	1310	3	X										F = Ascorbic acid preserved
2.																		
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>1550</u> <u>6/5/25</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: <input checked="" type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input type="checkbox"/> COOLER TEMP <u>7.2</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY: 2. <u>[Signature]</u>	Comments: <u>See work order for list of site specific Voc's</u> <u>PO# 148064511</u>
RELINQUISHED BY SAMPLER: 3. <u>JT</u>	DATE/TIME: <u>1730</u> <u>6.5.25</u>	RECEIVED BY: 3. <u>[Signature]</u>	Page <u>2</u> of <u>2</u> CLIENT: <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Other
			Shipment Complete <input type="checkbox"/> YES <input type="checkbox"/> NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2249	JACO05	Order Date : 6/5/2025 4:19:00 PM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 4
Client Contact : John Ynfante		Receive DateTime : 6/5/2025 12:00:00 AM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order : 17:30	Hard Copy Date :
Invoice Contact : John Ynfante			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2249-01	MW-06-6.5-060525	Water	06/05/2025	13:10	VOCMS Group3		8260-Low	10 Bus. Days	5 BUS. DAYS

Relinquished By : 

Date / Time : 6/6/25 0810

SAMPLED RECEIVED ON 6/5/25
PLACED IN SH-REF-2

Received By : 

Date / Time : 06/06/25 8:10

Storage Area : VOA Refridgerator Room