

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS GENERAL CHEMISTRY METALS SEMI-VOLATILE ORGANICS

PROJECT NAME: FORMER SCHLUMBERGER SITE PRINCETON NJ

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID: P3596

ATTENTION: Mary I. Murphy







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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Labora	atory Name :	Alliance Technical Group LLC	Client :	JACOBS Engine	eering	Grou	p, Inc.		
Projec	t Location:	Princeton Junction, NJ	Project Number :	D3779922					
Labora	atory Sample ID	0(s): <u>P3596</u>	Sampling Date(s):	8/13/2024					
List DI	KQP Methods U	Jsed (e.g., 8260,8270, et Cetra) 6	6020B,7196A,7470A,8260-	Low,8270-Modif	ied,82	270E			
1	specified QA/C explain any cri	rtical method referenced in this labo QC performance criteria followed, in teria falling outside of acceptable g of Known Quality performance stand	cluding the requirement to uidelines, as specified in th		$\overline{\mathbf{N}}$	Yes		No	
1A	Were the meth	nod specified handling, preservation	n, and holding time requiren	nents met?		Yes		No	
1B		Was the EPH method conducted w f respective DKQ methods)	ithout significant modification	ons (see		Yes		No	✓ N/A
2		les received by the laboratory in a che associated chain-of-custody doc		at	V	Yes		No	
3	Were samples	received at an appropriate tempera	ature (4±2° C)?		$\overline{\mathbf{A}}$	Yes		No	□ N/A
4	Were all QA/Q standards ach	C performance criteria specified in nieved?	the NJDEP DKQP			Yes	$\overline{\checkmark}$	No	
5		ng limits specified or referenced on I to the laboratory prior to sample re			V	Yes		No	
	b)Were these i	reporting limits met?			V	Yes		No	□ N/A
6	results reporte	rtical method referenced in this labored for all constituents identified in the DKQP documents and/or site-sp	ne method-specific analyte		V	Yes		No	
7	Are project-spe	ecific matrix spikes and/or laborato	ry duplicates included in this	s data set?		Yes	V	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."

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

Cover Page

Order ID: P3596

Project ID: Former Schlumberger Site Princeton NJ

Client: JACOBS Engineering Group, Inc.

Lab Sample Number

Client Sample Number

P3596-01 918-J-WS-081324 P3596-02 918-J-WS-081324-FD P3596-03 TB-01-081324

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 :		
Signature .	Date:	9/5/2024

NYDOH CERTIFICATION NO - 11376 NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3596 Test Name: VOCMS Group6

A. Number of Samples and Date of Receipt:

3 Water samples were received on 08/13/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for VOCMS Group6.

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 of VOCMS Group6 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.

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 met the requirements.

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.

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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 <15% 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 > 15% 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.

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Signature	

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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3596 Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

3 Water samples were received on 08/13/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for SVOCMS Group3.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group3 was based on method 8270-Modified 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.

The Internal Standards Areas met the acceptable requirements.

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 BN033465.D met the requirements except for 2,4,6-Tribromophenol, The above failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

The Sample 918-J-WS-081324, have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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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 <15% 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 > 15% 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

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3596 Test Name: SVOCMS Group6

A. Number of Samples and Date of Receipt:

3 Water samples were received on 08/13/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for SVOCMS Group6.

C. Analytical Techniques:

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-GGAThe analysis of SVOCMS Group6 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 918-J-WS-081324-FD [2,4,6-Tribromophenol - 114%]. these compound did not meet the NJDKQP criteria but met the in-house criteria, Therefor no corrective action was required.

The Internal Standards Areas met the acceptable requirements.

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 % RSD is greater than 15% in the Initial Calibration (Method 8270-BM081024.M) for Benzaldehyde, this compound is passing on Quadratic regression.

The Continuous Calibration File ID BM047290.D met the requirements except for Terphenyl-d14. Which is not our target compound, therefore no corrective action taken. The Tuning criteria met requirements.

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E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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 <15% 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 > 15% 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		
Signature		

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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3596

Test Name: Metals Group4, Mercury

A. Number of Samples and Date of Receipt:

3 Water samples were received on 08/13/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for Metals Group4, Mercury.

C. Analytical Techniques:

The analysis of Metals Group4 was based on method 6020B, digestion based on method 3010 (waters). The analysis and digestion of Mercury was based on method 7470A.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate (918-J-WS-081324-FDDUP) analysis met criteria for all samples except for Arsenic due to sample matrix interference.

The Matrix Spike (918-J-WS-081324-FDMS) analysis met criteria for all samples except for Molybdenum and Silver due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (918-J-WS-081324-FDMSD) analysis met criteria for all samples except for Molybdenum and Silver due to Chemical Interference during Digestion Process.

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

The Calibration met the requirements.

The Serial Dilution (918-J-WS-081324-FDL) met criteria for all samples except for Aluminum, Iron, and Manganese due to sample matrix interference.

E. Additional Comments:

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

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Signature

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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3596

Test Name: Hexavalent Chromium

A. Number of Samples and Date of Receipt:

3 Water samples were received on 08/13/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for Hexavalent Chromium.

C. Analytical Techniques:

The analysis of Hexavalent Chromium was based on method 7196A.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

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

The Calibration met the requirements.

E. Additional Comments:

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.

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Signature	

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DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following "Results Qualifiers" are used:

- J Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
- U Indicates the analyte was analyzed for, but not detected.
- ND Indicates the analyte was analyzed for, but not detected
- E Indicates the reported value is estimated because of the presence of interference
- M Indicates Duplicate injection precision not met.
- N Indicates the spiked sample recovery is not within control limits.
- S Indicates the reported value was determined by the Method of Standard Addition (MSA).
- * Indicates that the duplicate analysis is not within control limits.
- + Indicates the correlation coefficient for the MSA is less than 0.995.
- D Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- M Method qualifiers
 - **"P"** for ICP instrument
 - "PM" for ICP when Microwave Digestion is used
 - "CV" for Manual Cold Vapor AA
 - "AV" for automated Cold Vapor AA
 - "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi –Automated Spectrophotometric
 - "C" for Manual Spectrophotometric
 - **"T"** for Titrimetric
 - "NR" for analyte not required to be analyzed
- OR Indicates the analyte's concentration exceeds the calibrated range of the
 - instrument for that specific analysis.
- Q Indicates the LCS did not meet the control limits requirements
- H Sample Analysis Out Of Hold Time



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. " $10~\rm U$ ". 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 is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. 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

Alliance

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3596

	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)	ent <u>✓</u>
Check chain-of-custody for proper relinquish/return of samples	_ ✓
Is the chain of custody signed and complete	<u>✓</u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u>√</u> <u>√</u> <u>√</u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
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	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<u> </u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u>✓</u> <u>✓</u> <u>✓</u>
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<u> </u>
Does the case narrative summarize all QC failure?	<u> </u>
All runlogs and manual integration are reviewed for requirements	
All manual calculations and /or hand notations verified	<u>✓</u>
1st Level QA Review Signature: SOHIL JODHANI	Date: 09/05/2024
2nd Level QA Review Signature:	Date:

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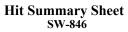




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SDG No.: P3596

Client: JACOBS Engineering Group, Inc.





Sample ID	Client ID	Matrix	Parameter	Concentration	(C MDL	RDL	Units
Client ID:	918-J-WS-081324	4						
P3596-01	918-J-WS-081324	4 Water	Acetone	4.90		J 1.40	5.00	ug/L
			Total Voc:	4.9	0			
			Total Concentration:	4.9	0			
Client ID:	918-J-WS-081324	4-FD						
P3596-02	918-J-WS-081324	4-F Water	Acetone	5.10		1.40	5.00	ug/L
			Total Voc:	5.1	0			
			Total Concentration:	5.1	0			
Client ID:	TB-01-081324							
P3596-03	TB-01-081324	Water	Acetone	2.10		J 1.40	5.00	ug/L
			Total Voc:	2.1	0			
			Total Concentration:	2.1	0			

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SAMPLE DATA



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

SDG No.:

P3596

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/13/24

Project: Date Collected: 08/13/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Lab Sample ID: P3596-01 Matrix: Water

918-J-WS-081324

Analytical Method: SW8260 % Solid: 0

Sample Wt/Vol: 5 Units: mL Final Vol: 5000 uL

Soil Aliquot Vol: uL Test: VOCMS Group6

GC Column: RXI-624 ID: 0.25 Level: LOW

Prep Method:

Client Sample ID:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

VN083309.D 1 08/14/24 18:29 VN081424

AS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
67-64-1	Acetone	4.90	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected:

08/13/24

Project: Former Schlumberger Site Princeton NJ

RXI-624

1

Date Received: 08/13/24

Client Sample ID: 918-J-WS-081324

P3596 SDG No.:

Lab Sample ID: P3596-01 SW8260

Matrix: Water

Analytical Method: Sample Wt/Vol: 5

Final Vol: 5000

Soil Aliquot Vol: uL

Test: VOCMS Group6

GC Column:

ID: 0.25

mL

Units:

Level: LOW

Prep Method:

VN083309.D

File ID/Qc Batch: Dilution: Prep Date

Date Analyzed

% Solid:

Prep Batch ID

uL

08/14/24 18:29 VN081424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.1		70 (74) - 130 (125)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		70 (75) - 130 (124)	109%	SPK: 50
2037-26-5	Toluene-d8	53.9		70 (86) - 130 (113)	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.9		70 (77) - 130 (121)	116%	SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	128000	8.224			
540-36-3	1,4-Difluorobenzene	253000	9.1			
3114-55-4	Chlorobenzene-d5	263000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	116000	13.794			

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

P3596 20 of 53



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

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/13/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Client Sample ID: 918-J-WS-081324-FD SDG No.: P3596

Lab Sample ID: P3596-02 Matrix: Water

Analytical Method: SW8260 % Solid: 0

Sample Wt/Vol: 5 Units: mL Final Vol: 5000 uL

Soil Aliquot Vol: uL Test: VOCMS Group6

GC Column: RXI-624 ID: 0.25 Level: LOW

Prep Method:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

VN083310.D 1 08/14/24 18:54 VN081424

AS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
67-64-1	Acetone	5.10		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L

P3596 **21 of 53**



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

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/13/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Client Sample ID: 918-J-WS-081324-FD SDG No.: P3596

Lab Sample ID: P3596-02 Matrix: Water

Analytical Method: SW8260 % Solid: 0

Sample Wt/Vol: 5 Units: mL Final Vol: 5000 uL

Soil Aliquot Vol: uL Test: VOCMS Group6

GC Column: RXI-624 ID: 0.25 Level: LOW

Prep Method:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

VN083310.D 1 08/14/24 18:54 VN081424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.4		70 (74) - 130 (125)	119%	SPK: 50
1868-53-7	Dibromofluoromethane	54.6		70 (75) - 130 (124)	109%	SPK: 50
2037-26-5	Toluene-d8	54.3		70 (86) - 130 (113)	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.0		70 (77) - 130 (121)	112%	SPK: 50
INTERNAL STA	ANDARDS					
363-72-4	Pentafluorobenzene	123000	8.224			
540-36-3	1,4-Difluorobenzene	243000	9.106			
3114-55-4	Chlorobenzene-d5	249000	11.865			
3855-82-1	1.4-Dichlorobenzene-d4	107000	13.794			

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

P3596 **22 of 53**



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

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/13/24

Project: Date Collected: 08/13/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Client Sample ID: TB-01-081324 SDG No.: P3596

Lab Sample ID: P3596-03 Matrix: Water

Analytical Method: SW8260 % Solid: 0

Sample Wt/Vol: 5 Units: mL Final Vol: 5000 uL

Soil Aliquot Vol: uL Test: VOCMS Group6

GC Column: RXI-624 ID: 0.25 Level: LOW

Prep Method:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

VN083307.D 1 08/14/24 17:41 VN081424

AS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
67-64-1	Acetone	2.10	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L

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08/13/24

P3596



TB-01-081324

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

SDG No.:

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected:

Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Lab Sample ID: P3596-03 Matrix: Water

Analytical Method: SW8260 % Solid: 0

Sample Wt/Vol: 5 Units: mL Final Vol: 5000 uL

Soil Aliquot Vol: uL Test: VOCMS Group6

GC Column: RXI-624 ID: 0.25 Level: LOW

Prep Method:

Client Sample ID:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID
VN083307.D 1 08/14/24 17:41 VN081424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.1		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		70 (75) - 130 (124)	108%	SPK: 50
2037-26-5	Toluene-d8	53.6		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.3		70 (77) - 130 (121)	113%	SPK: 50
INTERNAL STA	ANDARDS					
363-72-4	Pentafluorobenzene	129000	8.23			
540-36-3	1,4-Difluorobenzene	250000	9.1			
3114-55-4	Chlorobenzene-d5	255000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	110000	13.794			

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

P3596 **24 of 53**



LAB CHRONICLE

OrderID:

P3596

JACOBS Engineering Group, Inc. Client:

Mary I. Murphy Contact:

8/13/2024 1:10:00 PM OrderDate:

Former Schlumberger Site Princeton NJ Project:

Location: D21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3596-01	918-J-WS-081324	Water			08/13/24			08/13/24
			VOCMS Group6	8260-Low			08/14/24	
P3596-02	918-J-WS-081324-F D	Water			08/13/24			08/13/24
			VOCMS Group6	8260-Low			08/14/24	
P3596-03	TB-01-081324	Water			08/13/24			08/13/24
			VOCMS Group6	8260-Low			08/14/24	

P3596 25 of 53



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

Hit Summary Sheet SW-846

SDG No.: P3596

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID		Parameter	Concentration	\mathbf{C}	MDL	RDL	Units
Client ID:	918-J-WS-081324							
P3596-01	918-J-WS-081324	WATER	Fluorene	0.110		0.02	0.1	ug/L
P3596-01	918-J-WS-081324	WATER	Phenanthrene	0.050	J	0.02	0.1	ug/L
P3596-01	918-J-WS-081324	WATER	Anthracene	0.030	J	0.02	0.1	ug/L
P3596-01	918-J-WS-081324	WATER	Fluoranthene	0.080	J	0.02	0.1	ug/L
P3596-01	918-J-WS-081324	WATER	Pyrene	0.050	J	0.02	0.1	ug/L
P3596-01	918-J-WS-081324	WATER	Benzo(a)anthracene	0.030	J	0.02	0.1	ug/L
P3596-01	918-J-WS-081324	WATER	Chrysene	0.040	J	0.03	0.1	ug/L
P3596-01	918-J-WS-081324	WATER	Benzo(b)fluoranthene	0.040	J	0.03	0.1	ug/L
			Total Svoc:		0.	43		
			Total Concentration:		0	.43		
Client ID :	918-J-WS-081324-FD							
P3596-02	918-J-WS-081324-FD	WATER	Fluorene	0.040	J	0.02	0.11	ug/L
P3596-02	918-J-WS-081324-FD	WATER	Phenanthrene	0.040	J	0.02	0.11	ug/L
P3596-02	918-J-WS-081324-FD	WATER	Fluoranthene	0.060	J	0.02	0.11	ug/L
P3596-02	918-J-WS-081324-FD	WATER	Pyrene	0.040	J	0.02	0.11	ug/L
P3596-02	918-J-WS-081324-FD	WATER	Chrysene	0.030	J	0.03	0.11	ug/L
P3596-02	918-J-WS-081324-FD	WATER	Benzo(b)fluoranthene	0.030	J	0.03	0.11	ug/L
			Total Svoc:		0.	24		
			Total Concentration:		0	.24		

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0

Α

C

SAMPLE DATA

P3596 **27 of 53**



Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/13/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Client Sample ID: 918-J-WS-081324 SDG No.: P3596

Lab Sample ID: P3596-01 Matrix: Water

Analytical Method: SW8270SIM % Solid: 0

Sample Wt/Vol: 990 Units: mL Final Vol: 1000 uL
Soil Aliquot Vol: uL Test: SVOCMS Group3

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

Prep Method: SW3510C

 File ID/Qc Batch:
 Dilution:
 Prep Date
 Date Analyzed
 Prep Batch ID

 BN033458 D
 1
 08/14/24 08:45
 08/17/24 08:27
 PB162723

BN033458.D	I .	08/14/24 0	18:45	08/17/24 08:27	PB162723	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.020	U	0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.10	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.10	ug/L
86-73-7	Fluorene	0.11		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.050	J	0.020	0.10	ug/L
120-12-7	Anthracene	0.030	J	0.020	0.10	ug/L
206-44-0	Fluoranthene	0.080	J	0.020	0.10	ug/L
129-00-0	Pyrene	0.050	J	0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.030	J	0.020	0.10	ug/L
218-01-9	Chrysene	0.040	J	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.040	J	0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.030	U	0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.29		30 (20) - 150 (139)	74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 (30) - 150 (150)	100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		30 (27) - 130 (123)	90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		30 (34) - 130 (132)	88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		30 (35) - 130 (157)	120%	SPK: 0.4
INTERNAL STA						
3855-82-1	1,4-Dichlorobenzene-d4	7350	7.559			
1146-65-2	Naphthalene-d8	20100	10.325			
15067-26-2	Acenaphthene-d10	10100	14.199			
1517-22-2	Phenanthrene-d10	21200	16.942			
3596			28 of 53			

Test:





Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/13/24 Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Client Sample ID: 918-J-WS-081324 SDG No.: P3596

Lab Sample ID: P3596-01 Matrix: Water Analytical Method: SW8270SIM % Solid: 0

990 Final Vol: 1000 uL Sample Wt/Vol: Units: mL

Soil Aliquot Vol: SVOCMS Group3 Extraction Type: Decanted: Ν Level: LOW

uL

GPC Cleanup: Injection Volume: GPC Factor: 1.0 Ν PH:

SW3510C Prep Method:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID BN033458.D 1 08/14/24 08:45 08/17/24 08:27 PB162723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	18500	21.148			
1520-96-3	Pervlene-d12	19500	23 323			

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

% Solid:

0



Analytical Method:

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/13/24 Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24 Client Sample ID: 918-J-WS-081324-FD SDG No.: P3596 Lab Sample ID: P3596-02 Matrix: Water

Sample Wt/Vol: 950 Units: mL Final Vol: 1000 uL

Soil Aliquot Vol: uL Test: SVOCMS Group3

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

Prep Method: SW3510C

SW8270SIM

 File ID/Qc Batch:
 Dilution:
 Prep Date
 Date Analyzed
 Prep Batch ID

 BN033459.D
 1
 08/14/24 08:45
 08/17/24 09:04
 PB162723

BN033459.D 1		08/14/24 0	8:45	08/17/24 09:04	PB162723	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.030	U	0.030	0.11	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.11	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.11	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.11	ug/L
86-73-7	Fluorene	0.040	J	0.020	0.11	ug/L
85-01-8	Phenanthrene	0.040	J	0.020	0.11	ug/L
120-12-7	Anthracene	0.030	U	0.030	0.11	ug/L
206-44-0	Fluoranthene	0.060	J	0.020	0.11	ug/L
129-00-0	Pyrene	0.040	J	0.020	0.11	ug/L
56-55-3	Benzo(a)anthracene	0.020	U	0.020	0.11	ug/L
218-01-9	Chrysene	0.030	J	0.030	0.11	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	J	0.030	0.11	ug/L
207-08-9	Benzo(k)fluoranthene	0.040	U	0.040	0.11	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.11	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.11	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.11	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.11	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.28		30 (20) - 150 (139)	71%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 (30) - 150 (150)	99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		30 (27) - 130 (123)	85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		30 (34) - 130 (132)	79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		30 (35) - 130 (157)	122%	SPK: 0.4
INTERNAL STA						
3855-82-1	1,4-Dichlorobenzene-d4	6780	7.559			
1146-65-2	Naphthalene-d8	18500	10.325			
15067-26-2	Acenaphthene-d10	9150	14.199			
1517-22-2	Phenanthrene-d10	18700	16.942			
² 3596			30 of 53			

Test:

SVOCMS Group3



Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/13/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Client Sample ID: 918-J-WS-081324-FD SDG No.: P3596

Lab Sample ID: P3596-02 Matrix: Water
Analytical Method: SW8270SIM % Solid: 0

Sample Wt/Vol: 950 Units: mL Final Vol: 1000 uL

Extraction Type: Decanted: N Level: LOW

uL

Injection Volume: GPC Factor: 1.0 GPC Cleanup: N PH:

Prep Method: SW3510C

Soil Aliquot Vol:

 File ID/Qc Batch:
 Dilution:
 Prep Date
 Date Analyzed
 Prep Batch ID

 BN033459.D
 1
 08/14/24 08:45
 08/17/24 09:04
 PB162723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	15900	21.148			
1520-96-3	Pervlene-d12	16800	23 32			

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



LAB CHRONICLE

OrderID: P3596

Client: JACOBS Engineering Group, Inc.

Contact: Mary I. Murphy

OrderDate: 8/13/2024 1:10:00 PM

Project: Former Schlumberger Site Princeton NJ

Location: D21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3596-01	918-J-WS-081324	Water	SVOCMS Group3	8270-Modifie d	08/13/24	08/14/24	08/17/24	08/13/24
P3596-02	918-J-WS-081324-F D	Water		ŭ	08/13/24			08/13/24
			SVOCMS Group3	8270-Modifie d		08/14/24	08/17/24	

P3596 **32 of 53**



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

Hit Summary Sheet SW-846

SDG No.: P3596

Client: JACOBS Engineering Group, Inc.

Sample ID Client ID Matrix Parameter Concentration C MDL RDL Units

Client ID:

0.000

Total Svoc: 0.00
Total Concentration: 0.00

P3596 **33 of 53**



В







SAMPLE DATA

7

Α

С

1





Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/13/24 Project: Date Received: 08/13/24 Former Schlumberger Site Princeton NJ Client Sample ID: 918-J-WS-081324 SDG No.: P3596 Lab Sample ID: P3596-01 Matrix: Water Analytical Method: % Solid: 0 SW8270

Sample Wt/Vol: 970 Units: mL Final Vol: 1000 uL
Soil Aliquot Vol: uL Test: SVOCMS Group6

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

Prep Method: SW3510C

 File ID/Qc Batch:
 Dilution:
 Prep Date
 Date Analyzed
 Prep Batch ID

 BM047300.D
 1
 08/14/24 08:25
 08/21/24 16:26
 PB162722

BM04/300.D	1	08/14/24	36.23	08/21/24 10:20	PB102/22	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.60	U	1.60	5.20	ug/L
100-52-7	Benzaldehyde	4.10	U	4.10	10.3	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.20	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.20	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.3	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.20	ug/L
120-83-2	2,4-Dichlorophenol	0.91	U	0.91	5.20	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.20	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.20	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.20	ug/L
88-06-2	2,4,6-Trichlorophenol	0.92	U	0.92	5.20	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.20	ug/L
208-96-8	Acenaphthylene	1.10	U	1.10	5.20	ug/L
83-32-9	Acenaphthene	0.84	U	0.84	5.20	ug/L
132-64-9	Dibenzofuran	0.96	U	0.96	5.20	ug/L
86-73-7	Fluorene	0.99	U	0.99	5.20	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.20	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.3	ug/L
85-01-8	Phenanthrene	0.92	U	0.92	5.20	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.20	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.20	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.20	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.20	ug/L
56-55-3	Benzo(a)anthracene	0.97	U	0.97	5.20	ug/L
218-01-9	Chrysene	0.89	U	0.89	5.20	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.20	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.20	ug/L
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.20	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.20	ug/L

P3596 **35 of 53**

08/13/24



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

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected:

Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Client Sample ID: 918-J-WS-081324 SDG No.: P3596

Lab Sample ID: P3596-01 Matrix: Water Analytical Method: SW8270 % Solid: 0

970 Final Vol: 1000 uL Sample Wt/Vol: Units: mL

Soil Aliquot Vol: uL Test: SVOCMS Group6

Extraction Type: Decanted: Ν Level: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: Ν PH:

SW3510C Prep Method:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID BM047300.D 1 08/14/24 08:25 08/21/24 16:26 PB162722

193-39-5 Indeno(1,2,3-cd)pyrene 1.10 U 1.10 53-70-3 Dibenzo(a,h)anthracene 1.20 U 1.20 191-24-2 Benzo(g,h,i)perylene 1.20 U 1.20 123-91-1 1,4-Dioxane 1.30 U 1.30	5.20 5.20 5.20 5.20 5.20	ug/L ug/L ug/L ug/L ug/L
191-24-2 Benzo(g,h,i)perylene 1.20 U 1.20 123-91-1 1,4-Dioxane 1.30 U 1.30	5.20 5.20	ug/L ug/L
123-91-1 1,4-Dioxane 1.30 U 1.30	5.20	ug/L
00.40	5.20	ug/L
90-12-0 1-Methylnaphthalene 0.89 U 0.89		
SURROGATES		
367-12-4 2-Fluorophenol 54.5 15 (10) - 110 (139)	36%	SPK: 150
13127-88-3 Phenol-d6 31.8 15 (10) - 110 (134)	21%	SPK: 150
4165-60-0 Nitrobenzene-d5 75.7 30 (49) - 130 (133)	76%	SPK: 100
321-60-8 2-Fluorobiphenyl 78.3 30 (52) - 130 (132)	78%	SPK: 100
118-79-6 2,4,6-Tribromophenol 164 15 (44) - 110 (137)	110%	SPK: 150
1718-51-0 Terphenyl-d14 102 30 (48) - 130 (125)	102%	SPK: 100
INTERNAL STANDARDS		
3855-82-1 1,4-Dichlorobenzene-d4 184000 7.351		
1146-65-2 Naphthalene-d8 678000 10.11		
15067-26-2 Acenaphthene-d10 451000 14.01		
1517-22-2 Phenanthrene-d10 1020000 16.78		
1719-03-5 Chrysene-d12 1110000 21.021		
1520-96-3 Perylene-d12 1130000 23.709		

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

08/13/24

SVOCMS Group6



Client:

Soil Aliquot Vol:

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

Report of Analysis

JACOBS Engineering Group, Inc.

Date Collected:

Test:

Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Client Sample ID: 918-J-WS-081324-FD SDG No.: P3596

Lab Sample ID: P3596-02 Matrix: Water

Analytical Method: SW8270 % Solid: 0

uL

Sample Wt/Vol: 960 Units: mL Final Vol: 1000 uL

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

Prep Method: SW3510C

 File ID/Qc Batch:
 Dilution:
 Prep Date
 Date Analyzed
 Prep Batch ID

 BM047298.D
 1
 08/14/24 08:25
 08/21/24 15:06
 PB162722

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.60	U	1.60	5.20	ug/L
100-52-7	Benzaldehyde	4.20	U	4.20	10.4	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.20	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.20	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.4	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.20	ug/L
120-83-2	2,4-Dichlorophenol	0.92	U	0.92	5.20	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.20	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.20	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.20	ug/L
88-06-2	2,4,6-Trichlorophenol	0.93	U	0.93	5.20	ug/L
95-95-4	2,4,5-Trichlorophenol	1.10	U	1.10	5.20	ug/L
208-96-8	Acenaphthylene	1.10	U	1.10	5.20	ug/L
83-32-9	Acenaphthene	0.84	U	0.84	5.20	ug/L
132-64-9	Dibenzofuran	0.97	U	0.97	5.20	ug/L
86-73-7	Fluorene	1.00	U	1.00	5.20	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.20	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.4	ug/L
85-01-8	Phenanthrene	0.93	U	0.93	5.20	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.20	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.20	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.20	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.20	ug/L
56-55-3	Benzo(a)anthracene	0.98	U	0.98	5.20	ug/L
218-01-9	Chrysene	0.90	U	0.90	5.20	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.00	U	2.00	5.20	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.20	ug/L
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.20	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.20	ug/L

P3596 **37 of 53**

08/13/24



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

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected:

Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Client Sample ID: 918-J-WS-081324-FD SDG No.: P3596

Lab Sample ID: P3596-02 Matrix: Water Analytical Method: SW8270 % Solid: 0

Final Vol: 1000 uL Sample Wt/Vol: 960 Units: mL

Soil Aliquot Vol: иL Test: SVOCMS Group6

Extraction Type: Decanted: Ν Level: LOW

Injection Volume: GPC Factor: 1.0 GPC Cleanup: Ν PH:

SW3510C Prep Method:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID BM047298.D 1 08/14/24 08:25 08/21/24 15:06 PB162722

	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.20	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.20	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.20	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.20	ug/L
90-12-0	1-Methylnaphthalene	0.90	U	0.90	5.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	54.0		15 (10) - 110 (139)	36%	SPK: 150
13127-88-3	Phenol-d6	32.9		15 (10) - 110 (134)	22%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.3		30 (49) - 130 (133)	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.4		30 (52) - 130 (132)	77%	SPK: 100
118-79-6	2,4,6-Tribromophenol	171	*	15 (44) - 110 (137)	114%	SPK: 150
1718-51-0	Terphenyl-d14	102		30 (48) - 130 (125)	102%	SPK: 100
INTERNAL STA	NDARDS					
3855-82-1	1,4-Dichlorobenzene-d4	190000	7.352			
1146-65-2	Naphthalene-d8	707000	10.11			
15067-26-2	Acenaphthene-d10	486000	14.016			
1517-22-2	Phenanthrene-d10	1100000	16.78			
1719-03-5	Chrysene-d12	1200000	21.021			
1520-96-3	Perylene-d12	1270000	23.715			

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

P3596

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LAB CHRONICLE

OrderID:

P3596

JACOBS Engineering Group, Inc. Client:

Mary I. Murphy Contact:

8/13/2024 1:10:00 PM OrderDate:

Former Schlumberger Site Princeton NJ Project:

Location: D21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3596-01	918-J-WS-081324	Water			08/13/24			08/13/24
			SVOCMS Group3	8270-Modifie d		08/14/24	08/17/24	
			SVOCMS Group6	8270E		08/14/24	08/21/24	
P3596-02	918-J-WS-081324-F D	Water			08/13/24			08/13/24
			SVOCMS Group3	8270-Modifie d		08/14/24	08/17/24	
			SVOCMS Group6	8270E		08/14/24	08/21/24	

P3596 39 of 53



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,

Fax: 908 789 8922

Hit Summary Sheet SW-846

SDG No.: P3596 **Order ID:** P3596

Client: JACOBS Engineering Group, Inc. Project ID: Former Schlumberger Site Princeton NJ

Client:	JACOBS Engineering Grou	p, Inc.		Project ID):	Former Schlumber	rger Site Princetor	ı NJ
Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	918-J-WS-081324							
P3596-01	918-J-WS-081324	Water	Aluminum	108		1.98	20.0	ug/L
P3596-01	918-J-WS-081324	Water	Antimony	0.34	J	0.11	2.00	ug/L
P3596-01	918-J-WS-081324	Water	Arsenic	2.21		0.090	1.00	ug/L
P3596-01	918-J-WS-081324	Water	Barium	58.1		0.30	10.0	ug/L
P3596-01	918-J-WS-081324	Water	Calcium	19000		62.5	500	ug/L
P3596-01	918-J-WS-081324	Water	Chromium	2.24		0.40	2.00	ug/L
P3596-01	918-J-WS-081324	Water	Cobalt	0.72	J	0.062	1.00	ug/L
P3596-01	918-J-WS-081324	Water	Copper	78.5		0.40	2.00	ug/L
P3596-01	918-J-WS-081324	Water	Iron	3570		9.60	50.0	ug/L
P3596-01	918-J-WS-081324	Water	Lead	1.81		0.11	1.00	ug/L
P3596-01	918-J-WS-081324	Water	Magnesium	3420		26.6	500	ug/L
P3596-01	918-J-WS-081324	Water	Manganese	510		0.24	1.00	ug/L
P3596-01	918-J-WS-081324	Water	Nickel	14.0		0.18	1.00	ug/L
P3596-01	918-J-WS-081324	Water	Potassium	2760		46.1	500	ug/L
P3596-01	918-J-WS-081324	Water	Tin	0.21	J	0.12	5.00	ug/L
P3596-01	918-J-WS-081324	Water	Sodium	68100		85.8	500	ug/L
P3596-01	918-J-WS-081324	Water	Vanadium	1.06	J	0.072	5.00	ug/L
P3596-01	918-J-WS-081324	Water	Zinc	28.7		0.56	5.00	ug/L
P3596-01	918-J-WS-081324	Water	Strontium	128		0.35	1.00	ug/L
P3596-01	918-J-WS-081324	Water	Titanium	2.26	J	0.26	5.00	ug/L
Client ID:	918-J-WS-081324-FD							
P3596-02	918-J-WS-081324-FD	Water	Aluminum	88.2		1.98	20.0	ug/L
P3596-02	918-J-WS-081324-FD	Water	Antimony	0.23	J	0.11	2.00	ug/L
P3596-02	918-J-WS-081324-FD	Water	Arsenic	1.74		0.090	1.00	ug/L
P3596-02	918-J-WS-081324-FD	Water	Barium	57.6		0.30	10.0	ug/L
P3596-02	918-J-WS-081324-FD	Water	Calcium	19100		62.5	500	ug/L
P3596-02	918-J-WS-081324-FD	Water	Chromium	1.21	J	0.40	2.00	ug/L
P3596-02	918-J-WS-081324-FD	Water	Cobalt	0.74	J	0.062	1.00	ug/L
P3596-02	918-J-WS-081324-FD	Water	Copper	3.59		0.40	2.00	ug/L
P3596-02	918-J-WS-081324-FD	Water	Iron	3340		9.60	50.0	ug/L
P3596-02	918-J-WS-081324-FD	Water	Lead	1.75		0.11	1.00	ug/L
P3596-02	918-J-WS-081324-FD	Water	Magnesium	3440		26.6	500	ug/L
P3596-02	918-J-WS-081324-FD	Water	Manganese	511		0.24	1.00	ug/L
P3596-02	918-J-WS-081324-FD	Water	Nickel	1.28		0.18	1.00	ug/L
P3596-02	918-J-WS-081324-FD	Water	Potassium	2770		46.1	500	ug/L
P3596-02	918-J-WS-081324-FD	Water	Sodium	68300		85.8	500	ug/L
P3596-02	918-J-WS-081324-FD	Water	Vanadium	0.98	J	0.072	5.00	ug/L

P3596 **40 of 53**

5.00

ug/L



918-J-WS-081324-FD

Water

P3596-02

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

1.40

J

0.26

Hit Summary Sheet SW-846

SDG No.: Client:	P3596 JACOBS Engineering Group	p, Inc.		Order ID: Project ID		P3596 Former Schlumb	perger Site Princeton NJ	
Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL Units	3
P3596-02	918-J-WS-081324-FD	Water	Zinc	36.8		0.56	5.00 ug/L	_

Titanium

P3596 **41 of 53**



8





D

SAMPLE DATA

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P3596-01

Lab Sample ID:

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

Matrix:

Water

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/13/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Client Sample ID: 918-J-WS-081324 SDG No.: P3596

Level (low/med): low % Solid: 0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	108		1	1.98	20.0	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-36-0	Antimony	0.34	J	1	0.11	2.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-38-2	Arsenic	2.21	*	1	0.090	1.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-39-3	Barium	58.1		1	0.30	10.0	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-41-7	Beryllium	0.16	U	1	0.16	1.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-43-9	Cadmium	0.30	U	1	0.30	1.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-70-2	Calcium	19000		1	62.5	500	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-47-3	Chromium	2.24		1	0.40	2.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-48-4	Cobalt	0.72	J	1	0.062	1.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-50-8	Copper	78.5		1	0.40	2.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7439-89-6	Iron	3570		1	9.60	50.0	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7439-92-1	Lead	1.81		1	0.11	1.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7439-95-4	Magnesium	3420		1	26.6	500	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7439-96-5	Manganese	510		1	0.24	1.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	08/18/24 13:50	08/19/24 11:18	SW7470A	
7439-98-7	Molybdenum	0.93	UN	1	0.93	5.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-02-0	Nickel	14.0		1	0.18	1.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-09-7	Potassium	2760		1	46.1	500	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7782-49-2	Selenium	1.38	U	1	1.38	5.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-22-4	Silver	0.077	UN	1	0.077	1.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-23-5	Sodium	68100		1	85.8	500	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-24-6	Strontium	128		1	0.35	1.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-28-0	Thallium	0.085	U	1	0.085	1.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-31-5	Tin	0.21	J	1	0.12	5.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-32-6	Titanium	2.26	J	1	0.26	5.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-62-2	Vanadium	1.06	J	1	0.072	5.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A
7440-66-6	Zinc	28.7		1	0.56	5.00	ug/L	09/04/24 12:30	09/04/24 15:20	SW6020	3010A

Color Before: Colorless Clarity Before: Clear Texture:

Color After: Colorless Clarity After: Clear Artifacts:

Comments: Mercury

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

P3596



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

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/13/24 Project: Date Received: Former Schlumberger Site Princeton NJ 08/13/24 Client Sample ID: 918-J-WS-081324-FD SDG No.: P3596 Lab Sample ID: P3596-02 Matrix: Water

Level (low/med): low % Solid: 0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	88.2		1	1.98	20.0	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-36-0	Antimony	0.23	J	1	0.11	2.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-38-2	Arsenic	1.74	*	1	0.090	1.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-39-3	Barium	57.6		1	0.30	10.0	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-41-7	Beryllium	0.16	U	1	0.16	1.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-43-9	Cadmium	0.30	U	1	0.30	1.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-70-2	Calcium	19100		1	62.5	500	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-47-3	Chromium	1.21	J	1	0.40	2.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-48-4	Cobalt	0.74	J	1	0.062	1.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-50-8	Copper	3.59		1	0.40	2.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7439-89-6	Iron	3340		1	9.60	50.0	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7439-92-1	Lead	1.75		1	0.11	1.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7439-95-4	Magnesium	3440		1	26.6	500	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7439-96-5	Manganese	511		1	0.24	1.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	08/18/24 13:50	08/19/24 11:20	SW7470A	
7439-98-7	Molybdenum	0.93	UN	1	0.93	5.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-02-0	Nickel	1.28		1	0.18	1.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-09-7	Potassium	2770		1	46.1	500	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7782-49-2	Selenium	1.38	U	1	1.38	5.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-22-4	Silver	0.077	UN	1	0.077	1.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-23-5	Sodium	68300		1	85.8	500	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-24-6	Strontium	129		1	0.35	1.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-28-0	Thallium	0.085	U	1	0.085	1.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-31-5	Tin	0.12	U	1	0.12	5.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-32-6	Titanium	1.40	J	1	0.26	5.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-62-2	Vanadium	0.98	J	1	0.072	5.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A
7440-66-6	Zinc	36.8		1	0.56	5.00	ug/L	09/04/24 12:30	09/04/24 15:23	SW6020	3010A

Color Before: Colorless Clarity Before: Clear Texture:

Color After: Colorless Clarity After: Clear Artifacts:

Comments: Mercury

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B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

P3596



LAB CHRONICLE

OrderID: P3596

Client: JACOBS Engineering Group, Inc.

Contact: Mary I. Murphy

OrderDate: 8/13/2024 1:10:00 PM

Project: Former Schlumberger Site Princeton NJ

Location: D21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3596-01	918-J-WS-081324	Water			08/13/24			08/13/24
			Mercury	7470A		08/18/24	08/19/24	
			Metals Group4	6020B		09/04/24	09/04/24	
P3596-02	918-J-WS-081324-F D	Water			08/13/24			08/13/24
			Mercury Metals Group4	7470A 6020B		08/18/24 09/04/24	08/19/24 09/04/24	

P3596 **45 of 53**



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SAMPLE DATA



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

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/13/24 11:15

Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Client Sample ID: 918-J-WS-081324 SDG No.: P3596

Lab Sample ID: P3596-01 Matrix: WATER

% Solid: 0

Dissolved Hexavalent 0.0030 U 1 0.0030 0.010 mg/L 08/13/24 16:29 7196A	Parameter	Conc. Q	Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Dissolved Hexavalent	0.0030 U	U	1 0.0030	0.010	mg/L		08/13/24 16:29	7196A

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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P3596 **47 of 53**



P3596-02

Lab Sample ID:

Chromium

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

Matrix:

WATER

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/13/24 11:20

Project: Former Schlumberger Site Princeton NJ Date Received: 08/13/24

Client Sample ID: 918-J-WS-081324-FD SDG No.: P3596

% Solid: 0

Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent	0.0030 U	1 0.0030	0.010	mg/L		08/13/24 16:33	3 7196A

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

48 of 53



LAB CHRONICLE

P3596 OrderID:

Client:

JACOBS Engineering Group, Inc.

Mary I. Murphy Contact:

8/13/2024 1:10:00 PM OrderDate:

Former Schlumberger Site Princeton NJ Project:

Location: D21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3596-01	918-J-WS-081324	WATER			08/13/24			08/13/24
					11:15			
			Hexavalent Chromium	7196A			08/13/24	
							16:29	
P3596-02	918-J-WS-081324-F	WATER			08/13/24			08/13/24
	D				11:20			
			Hexavalent Chromium	7196A			08/13/24	
							16:33	

P3596 49 of 53



SHIPPING DOCUMENTS

P3596 **50 of 53**



284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 • Fax (908) 789-8922 www.chemtech.net

CHEMTECH PROJECT NO

QUOTE NO.

P3596

COC Number 2041313

CLIENT PROJECT INFORMATION CLIENT INFORMATION CLIENT BILLING INFORMATION PROJECT NAME: STC PTC COMPANY: Jacobs BILL TO: Mary Murphy PROJECT NO.: D377977 LOCATION: Prince ben Trackin ADDRESS ADDRESS: 412 Mt Kemble Ave Suite #/00 PROJECT MANAGER: Mary Murphy CITY Morristown STATE: N. J ZIP: 07960 CITY STATE: e-mail: Mary, Murshy@ Jacobs. am ATTENTION: John Ynfantz ATTENTION: PHONE ANALYSIS PHONE: (261) 936-5586 DATA TURNAROUND INFORMATION **DATA DELIVERABLE INFORMATION** Standard TAT ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data) FAX (RUSH) DAYS* ☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP HARDCOPY (DATA PACKAGE): DAYS* Level 3 (Results + QC ☐ NYS ASP A ☐ NYS ASP B DAYS* EDD: -*TO BE APPROVED BY CHEMTECH + Raw Data) Other STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS ☐ EDD FORMAT **PRESERVATIVES** COMMENTS SAMPLE **SAMPLE** OF BOTTLES CHEMTECH Specify Preservatives **TYPE** COLLECTION **PROJECT** SAMPLE E E SAMPLE A-HCI E SAMPLE IDENTIFICATION MATRIX B-HN03 E-ICE ID DATE TIME 8 F-OTHER 918-J-WS-081324 8-13-21 1115 2 WS X 8-13-24 1120 NIS 918-J-415-081324-FD 2 TB-01-081324 X 8-13-14 1700 DI 10. SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY Conditions of bottles or polers at receipt: COMPLIANT NON COMPLIANT, COOLER TEMP 3.0 °C

Comments: See affached table for required analytis list of ECO-VOCS, ECO-SVOCS,

and ECO wilds RELINQUISHED BY SAMPLER 8-13-24 RELINQUISHED BY SAMPLER: DATE/TIME: 2 L of extra volume for SVOC + PAH analysis DATE/TIME: 1405 RECEIVED BY: ☐ Other □ Hand Delivered Shipment Complete 8-13-24 ☐ Picked Up ☐ Field Sampling ☐ YES O NO WHITE - CHEMTECH COPY FOR RETURN TO CLIENT 51Y6453- CHEMTECH COPY PINK - SAMPLER COPY





Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
OAO LI A OLI COIII aci	0011E1X1120D00111
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Waine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148



284 Sheffield Street, Mountainside, New Jersey 07092, Phone: 908 789 8900,

Fax: 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID: P3596

JACO05

Order Date: 8/13/2024 1:10:00 PM

Project Mgr: Yazmeen

Client Name: JACOBS Engineering Grou

Project Name: Former Schlumberger Site I

Report Type: Level 4

Client Contact: Mary I. Murphy

Receive DateTime: 8/13/2024 12:00:00 AM

EDD Type: CH2MHILL

Invoice Name: JACOBS Engineering Grou

Purchase Order:

ำนง05

Hard Copy Date:

Invoice Contact: Mary I. Murphy

Date Signoff: 8/13/2024 3:37:47 PM

LAB ID	CLIENT ID	MATRIX SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3596-01	918-J-WS-081324	Water 08/13/2024	11:15					
				VOCMS Group6		8260-Low	10 Bus. Days	
P3596-02	918-J-WS-081324-FD	Water 08/13/2024	11:20					
				VOCMS Group6		8260-Low	10 Bus. Days	
P3596-03	TB-01-081324	Water 08/13/2024	12:00					
				VOCMS Group6		8260-Low	10 Bus. Days	

Relinguished By:

Date / Time: 8 1312

Storage Area: VOA Refridgerator Room