

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: P3451

ATTENTION: Mary I. Murphy







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

Fax: 908 789 8922

Cover Page

Order ID: P3451

Project ID: Former Schlumberger Site Princeton NJ

Client: JACOBS Engineering Group, Inc.

Lab Sample Number

Client Sample Number

P3451-01 921-J-WS-080124 P3451-02 TB-03-080124

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:

N. N. Pandya

By Nimisha Pandya QA/QC Supervisor at 10:04 am, Aug 29, 2024

APPROVED

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

2

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Labora	Laboratory Name: Alliance Technical Group LLC Client: JACOBS Engineer					Group	o, Inc.		
Projec	ct Location:	Princeton, NJ	Project Number :	D3779922					
Labora	aboratory Sample ID(s): P3451 Sampling Date(s): 8/01/2024								
List D	t DKQP Methods Used (e.g., 8260,8270, et Cetra) 6020B,7196A,7470A,8260-Low,8270-Modifi								
1	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?							No	
1A	Were the meth	od specified handling, preservati	on, and holding time requiren	nents met?	$\overline{\mathbf{A}}$	Yes		No	
1B		Was the EPH method conducted frespective DKQ methods)	without significant modification	ons (see		Yes		No	✓ N/A
2		les received by the laboratory in a he associated chain-of-custody d		at	V	Yes		No	
3	Were samples	received at an appropriate temper	erature (4±2° C)?		V	Yes		No	□ N/A
4	Were all QA/Q standards ach	C performance criteria specified nieved?	in the NJDEP DKQP			Yes	\checkmark	No	
5		ng limits specified or referenced of to the laboratory prior to sample			V	Yes		No	
	b)Were these reporting limits met?							No	□ 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?							No	
7	7 Are project-specific matrix spikes and/or laboratory duplicates included in this data set?							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."





CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3451 Test Name: VOCMS Group6

A. Number of Samples and Date of Receipt:

2 Water samples were received on 08/01/2024.

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 MS recoveries met the requirements for all compounds.

The MSD recoveries met the acceptable requirements.

The RPD met criteria.

The Blank Spike 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 therefore lab used from another project.

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.

Signature___ N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:05 am, Aug 29, 2024



CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3451 Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

2 Water samples were received on 08/01/2024.

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 except for 923-K1-WS-080124MSD [Terphenyl-d14 - 134%] this compound did not meet the NJDKQP criteria but met the inhouse criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {P3440-02MS} with File ID: BN033232.D recoveries met the requirements for all compounds except for 2-Methylnaphthalene[68%], Phenanthrene[136%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {P3440-03MSD} with File ID: BN033233.D recoveries met the acceptable requirements except for Phenanthrene[152%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The RPD met criteria.

The Blank Spike met requirements for all samples.





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

The % RSD is greater than 20% in the Initial Calibration method (Method 8270Sim-BN080524.M) for 1,4-Dioxane, this compound is passing on Linear Regression.

The Continuous Calibration File ID BN033228.D met the requirements except for Benzo(b)fluoranthene is failing marginally low and and 2,4,6-Tribromophenol, failure surrogate is not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

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

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

N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:05 am, Aug 29, 2024



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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3451 Test Name: SVOCMS Group6

A. Number of Samples and Date of Receipt:

2 Water samples were received on 08/01/2024.

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_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe 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.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {P3440-02MS} with File ID: BF138838.D recoveries met the requirements for all compounds except for Benzaldehyde[0%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {P3440-03MSD} with File ID: BF138839.D recoveries met the acceptable requirements except for Benzaldehyde[0%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The RPD met criteria.

The Blank Spike 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 BF138834.D met the requirements except for Pentachlorophenol but no positive hit in associated sample therefore no corrective action taken.





The Tuning criteria met requirements.

E. Additional Comments:

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

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.

Signature_ N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:05 am, Aug 29, 2024





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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3451

Test Name: Metals Group4, Mercury

A. Number of Samples and Date of Receipt:

2 Water samples were received on 08/01/2024.

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 analysis met criteria for all samples.

The Matrix Spike (923-K1-WS-080124MS) analysis met criteria for all samples except for Silver, Strontium, Titanium due to matrix interference.

The Matrix Spike Duplicate (923-K1-WS-080124MSD) analysis met criteria for all samples except for Silver, Strontium, Titanium due to matrix interference.

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

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

The data package has been revised due to the Analytical Method changed for Metals as per client request.

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.

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.

	N. N. Pandya	APPROVED
Signature	14. 14. 14 Page	By Nimisha Pandya QA/QC Supervisor at 10:05 am, Aug 29, 2024



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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3451

Test Name: Hexavalent Chromium

A. Number of Samples and Date of Receipt:

2 Water samples were received on 08/01/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, 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.

Signature_ N. N. Pantya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:06 am, Aug 29, 2024



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. " $10\mathrm{U}$ ". 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.
В	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 #: P3451

	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)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u> </u>
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>
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	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
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>
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	<u> </u>
All manual calculations and /or hand notations verified	<u> </u>

1st Level QA Review Signature:

2nd Level QA Review Signature:

SOHIL JODHANI

Date: 08/27/2024

N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:06 am, Aug 29, 202-



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

Fax: 908 789 8922

Hit Summary Sheet SW-846

SDG No.: P3451

Client: JACOBS Engineering Group, Inc.



Sample ID	Client ID	Matrix	Parameter	Concentration	C MDL	RDL	Units
Client ID:	921-J-WS-080124						
P3451-01	921-J-WS-080124	Water	Acetone	10.7	1.40	5.00	ug/L
P3451-01	921-J-WS-080124	Water	Toluene	2.00	0.18	1.00	ug/L
			Total Voc:	12.7			
			Total Concentration:	12.7			











SAMPLE DATA



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

Report of Analysis

JACOBS Engineering Group, Inc. Date Collected: 08/01/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/01/24

Client Sample ID: 921-J-WS-080124 SDG No.: P3451

Lab Sample ID: P3451-01 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:

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

VN083283.D 1 08/14/24 07:16 VN081324

CAS 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	10.7		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	2.00		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

VOCMS Group6



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

Test:

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/01/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/01/24

Client Sample ID: 921-J-WS-080124 SDG No.: P3451

Lab Sample ID: P3451-01 Matrix: Water

Analytical Method: SW8260 % Solid: 0

uL

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

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

Prep Method:

Soil Aliquot Vol:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VN083283.D 1 08/14/24 07:16 VN081324

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	57.0		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.3		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.9		70 (77) - 130 (121)	116%	SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	131000	8.224			
540-36-3	1,4-Difluorobenzene	258000	9.1			
3114-55-4	Chlorobenzene-d5	270000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	123000	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



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

Report of Analysis

JACOBS Engineering Group, Inc.

Date Collected: 08/01/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/01/24

Client Sample ID: TB-03-080124 SDG No.: P3451

Lab Sample ID: P3451-02 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:

Client:

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

VN083284.D 1 08/14/24 07:40 VN081324

CAS 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	1.40	U	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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Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/01/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/01/24

Client Sample ID: TB-03-080124 SDG No.: P3451
Lab Sample ID: P3451-02 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 VN083284.D 1 08/14/24 07:40 VN081324

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	56.8		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.3		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.8		70 (77) - 130 (121)	112%	SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	139000	8.224			
540-36-3	1,4-Difluorobenzene	272000	9.1			
3114-55-4	Chlorobenzene-d5	277000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	120000	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



LAB CHRONICLE

OrderID: P3451 **OrderDate:** 8/1/2024 4:38:00 PM

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

Contact: Mary I. Murphy Location: D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3451-01	921-J-WS-080124	Water			08/01/24			08/01/24
			VOCMS Group6	8260-Low			08/14/24	
P3451-02	TB-03-080124	Water			08/01/24			08/01/24
			VOCMS Group6	8260-Low			08/14/24	

С

D





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Hit Summary Sheet SW-846

SDG No.: P3451

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	921-J-WS-080124							
P3451-01	921-J-WS-080124	WATER	Phenanthrene	0.050	J	0.02	0.1	ug/L
P3451-01	921-J-WS-080124	WATER	Fluoranthene	0.060	J	0.02	0.1	ug/L
P3451-01	921-J-WS-080124	WATER	Pyrene	0.040	J	0.02	0.1	ug/L
P3451-01	921-J-WS-080124	WATER	Benzo(b)fluoranthene	0.030	J	0.03	0.1	ug/L
			Total Svoc:		0.	18		
			Total Concentration:		0	.18		







В



SAMPLE DATA





Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/01/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/01/24

Client Sample ID: 921-J-WS-080124 SDG No.: P3451

Lab Sample ID: P3451-01 Matrix: Water
Analytical Method: SW8270SIM % Solid: 0

Sample Wt/Vol: 980 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

 BN033235.D
 1
 08/02/24 09:25
 08/03/24 12:48
 PB162464

DIN055255.D	1	06/02/24	17.23	00/03/24 12.40	1 D102404	
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	0.020	U	0.020	0.10	ug/L
85-01-8	Phenanthrene	0.050	J	0.020	0.10	ug/L
120-12-7	Anthracene	0.020	U	0.020	0.10	ug/L
206-44-0	Fluoranthene	0.060	J	0.020	0.10	ug/L
129-00-0	Pyrene	0.040	J	0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.020	U	0.020	0.10	ug/L
218-01-9	Chrysene	0.030	U	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	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	0.25		30 (30) - 150 (150)	63%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 (30) - 150 (150)	79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		30 (11) - 130 (175)	70%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		30 (10) - 130 (175)	78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		30 (54) - 130 (171)	98%	SPK: 0.4
INTERNAL STA						
3855-82-1	1,4-Dichlorobenzene-d4	2720	7.546			
1146-65-2	Naphthalene-d8	9390	10.276			
15067-26-2	Acenaphthene-d10	4760	14.137			
1517-22-2	Phenanthrene-d10	9240	16.908			
3451			26 of 44			



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Final Vol:

1000

uL

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/01/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/01/24

Client Sample ID: 921-J-WS-080124 SDG No.: P3451

Lab Sample ID: P3451-01 Matrix: Water

Analytical Method: SW8270SIM % Solid: 0

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

980

Units:

mL

Sample Wt/Vol:

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

 BN033235.D
 1
 08/02/24 09:25
 08/03/24 12:48
 PB162464

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	7130	21.125			
1520-96-3	Perylene-d12	7840	23.306			

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

8/1/2024 4:38:00 PM

OrderID: P3451 OrderDate:

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

Contact: Mary I. Murphy Location: D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3451-01	921-J-WS-080124	Water			08/01/24			08/01/24
			SVOCMS Group3	8270-Modifie		08/02/24	08/03/24	

A

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Hit Summary Sheet SW-846

SDG No.: P3451

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





Α





SAMPLE DATA

Test:





Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/01/24 Date Received: 08/01/24 Project: Former Schlumberger Site Princeton NJ

Client Sample ID: 921-J-WS-080124 SDG No.: P3451 Water Lab Sample ID: P3451-01 Matrix:

Analytical Method: % Solid: 0 SW8270

uL

Sample Wt/Vol: 980 Units: mL Final Vol: 1000 uL

SVOCMS Group6 Soil Aliquot Vol: Level: Extraction Type: Decanted: Ν LOW

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

SW3510C Prep Method:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID BF138844.D 1 08/02/24 09:23 08/07/24 16:05 PB162463

BF138844.D 1		08/02/24 09:23		08/07/24 10:03	PB102403	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.60	U	1.60	5.10	ug/L
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L



Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/01/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/01/24

Client Sample ID: 921-J-WS-080124 SDG No.: P3451

Lab Sample ID: P3451-01 Matrix: Water

Analytical Method: SW8270 % Solid: 0

Sample Wt/Vol: 980 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

 BF138844.D
 1
 08/02/24 09:23
 08/07/24 16:05
 PB162463

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
90-12-0	1-Methylnaphthalene	0.88	U	0.88	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	49.2		15 (10) - 110 (139)	33%	SPK: 150
13127-88-3	Phenol-d6	29.6		15 (10) - 110 (134)	20%	SPK: 150
4165-60-0	Nitrobenzene-d5	78.6		30 (49) - 130 (133)	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.4		30 (52) - 130 (132)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		15 (32) - 110 (145)	86%	SPK: 150
1718-51-0	Terphenyl-d14	95.3		30 (36) - 130 (145)	95%	SPK: 100
INTERNAL STA	NDARDS					
3855-82-1	1,4-Dichlorobenzene-d4	44300	6.839			
1146-65-2	Naphthalene-d8	184000	8.122			
15067-26-2	Acenaphthene-d10	95700	9.869			
1517-22-2	Phenanthrene-d10	153000	11.357			
1719-03-5	Chrysene-d12	77100	13.998			
1520-96-3	Perylene-d12	83600	15.457			

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: P3451 **OrderDate:** 8/1/2024 4:38:00 PM

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

Contact: Mary I. Murphy Location: D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3451-01	921-J-WS-080124	Water			08/01/24			08/01/24
			SVOCMS Group3	8270-Modifie		08/02/24	08/03/24	
			SVOCMS Group6	d 8270E		08/02/24	08/07/24	

С

D





SDG No.:

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Fax: 908 789 8922

Hit Summary Sheet SW-846

P3451 **Order ID:** P3451

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

Client:	JACOBS Engineering Gro	oup, Inc.		Project ID:		Former Schlumbe	rger Site Princetor	1 NJ
Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	921-J-WS-080124							
P3451-01	921-J-WS-080124	Water	Aluminum	151		1.98	20.0	ug/L
P3451-01	921-J-WS-080124	Water	Antimony	0.23	J	0.11	2.00	ug/L
P3451-01	921-J-WS-080124	Water	Arsenic	2.11		0.090	1.00	ug/L
P3451-01	921-J-WS-080124	Water	Barium	48.7		0.30	10.0	ug/L
P3451-01	921-J-WS-080124	Water	Calcium	14700		62.5	500	ug/L
P3451-01	921-J-WS-080124	Water	Cobalt	0.46	J	0.062	1.00	ug/L
P3451-01	921-J-WS-080124	Water	Copper	2.72		0.40	2.00	ug/L
P3451-01	921-J-WS-080124	Water	Iron	3270		9.60	50.0	ug/L
P3451-01	921-J-WS-080124	Water	Lead	2.52		0.11	1.00	ug/L
P3451-01	921-J-WS-080124	Water	Magnesium	2500		26.6	500	ug/L
P3451-01	921-J-WS-080124	Water	Manganese	352		0.24	1.00	ug/L
P3451-01	921-J-WS-080124	Water	Nickel	0.67	J	0.18	1.00	ug/L
P3451-01	921-J-WS-080124	Water	Potassium	2540		46.1	500	ug/L
P3451-01	921-J-WS-080124	Water	Tin	0.31	J	0.12	5.00	ug/L
P3451-01	921-J-WS-080124	Water	Sodium	51300		85.8	500	ug/L
P3451-01	921-J-WS-080124	Water	Vanadium	1.61	J	0.072	5.00	ug/L
P3451-01	921-J-WS-080124	Water	Zinc	7.82		0.56	5.00	ug/L
P3451-01	921-J-WS-080124	Water	Strontium	107		0.35	1.00	ug/L
P3451-01	921-J-WS-080124	Water	Titanium	2.85	J	0.26	5.00	ug/L













SAMPLE DATA



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Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/01/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/01/24

Client Sample ID: 921-J-WS-080124 SDG No.: P3451

Lab Sample ID: P3451-01 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	151		1	1.98	20.0	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-36-0	Antimony	0.23	J	1	0.11	2.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-38-2	Arsenic	2.11		1	0.090	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-39-3	Barium	48.7		1	0.30	10.0	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-41-7	Beryllium	0.16	U	1	0.16	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-43-9	Cadmium	0.30	U	1	0.30	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-70-2	Calcium	14700		1	62.5	500	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-47-3	Chromium	0.40	U	1	0.40	2.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-48-4	Cobalt	0.46	J	1	0.062	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-50-8	Copper	2.72		1	0.40	2.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7439-89-6	Iron	3270		1	9.60	50.0	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7439-92-1	Lead	2.52		1	0.11	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7439-95-4	Magnesium	2500		1	26.6	500	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7439-96-5	Manganese	352		1	0.24	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	08/12/24 16:13	08/13/24 10:42	SW7470A	
7439-98-7	Molybdenum	0.93	U	1	0.93	5.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-02-0	Nickel	0.67	J	1	0.18	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-09-7	Potassium	2540		1	46.1	500	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7782-49-2	Selenium	1.38	U	1	1.38	5.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-22-4	Silver	0.077	UN	1	0.077	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-23-5	Sodium	51300		1	85.8	500	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-24-6	Strontium	107	N	1	0.35	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-28-0	Thallium	0.085	U	1	0.085	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-31-5	Tin	0.31	J	1	0.12	5.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-32-6	Titanium	2.85	JN	1	0.26	5.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-62-2	Vanadium	1.61	J	1	0.072	5.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-66-6	Zinc	7.82		1	0.56	5.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A

Color Before: Colorless Clarity Before: Clear Texture: Medium

Color After: Colorless Clarity After: N/A Artifacts: N/A

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



LAB CHRONICLE

OrderID: P3451 **OrderDate:** 8/1/2024 4:38:00 PM

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

Contact: Mary I. Murphy Location: D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3451-01	921-J-WS-080124	Water			08/01/24			08/01/24
			Mercury Metals Group4	7470A 6020B		08/12/24 08/23/24	08/13/24 08/25/24	







SAMPLE DATA

Lab Sample ID:

Chromium

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

Matrix:

WATER

Fax: 908 789 8922

P3451-01

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/01/24 14:20

Project: Former Schlumberger Site Princeton NJ Date Received: 08/01/24

Client Sample ID: 921-J-WS-080124 SDG No.: P3451

% 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		08/02/24 14:1	2 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



LAB CHRONICLE

OrderID: P3451

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

Contact: Mary I. Murphy Location: D31,VOA Ref. #3 Water

LabID ClientID Matrix Test Sample Date **Prep Date Anal Date** Method Received 08/01/24 08/01/24 P3451-01 WATER 921-J-WS-080124 14:20 Hexavalent Chromium 7196A 08/02/24 14:12

OrderDate:

8/1/2024 4:38:00 PM



SHIPPING DOCUMENTS



Jacobs

PHONE: (281) 414-1719

COMPANY:

CLIENT INFORMATION

ADDRESS: 4/2 Mt Krubk Ave Suite H/OD

REPORT TO BE SENT TO:

FAX: DATA TURNAROUND INFORMATION

STATE: NT ZIP: 07960

рателтіме: **1.73**0 песеіved ву: 8-1-24 3.

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

CLIENT PROJECT INFORMATION

PROJECT NO.: D3779972 LOCATION: Princepy Trucking

Mary . Morphy @ Jacobs. Com

DATA DELIVERABLE INFORMATION

☐ Hand Delivered

☐ Other

☐ Picked Up ☐ Field Sampling

PINK - SAMPLER COPY

PROJECT NAME: STC PTC

PHONE: (701) 936-0586

PROJECT MANAGER: May Murphy

QUO-	MTECH PROJECT NO. P3451 TE NO. P3451	10 10.1
CL	IENT BILLING INFORMATION	
BILL TO: Mary M. ADDRESS:	urphy PO#:	
CITY	STATE: ZIP:	
ATTENTION:	PHONE: ANALYSIS	
4 5 6 PRESERVATIVES	7 8 9 COMMENTS	

Standard TAT FAX (RUSH) -DAYS* ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data) HARDCOPY (DATA PACKAGE): DAYS* ☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP DAYS* Level 3 (Results + QC NYS ASP A NYS ASP B *TO BE APPROVED BY CHEMTECH + Raw Data) STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS □ EDD FORMAT **PRESERVATI** SAMPLE SAMPLE # OF BOTTLES A/E **CHEMTECH** ← Specify Preservatives COLLECTION TYPE BE **PROJECT** SAMPLE E E SAMPLE D-NaOH SAMPLE IDENTIFICATION MATRIX ID **DATE** 2 3 5 6 8 C-H2SO4 F-OTHER WS 8/1/24 921- J-WS-680124 2 2 TR-03-080124 D 3. 9. 10. SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY RELINQUISHED BY SAMPLER: comments: See attached table for required analytics list of Eco-vois, Eco-svois, and Eco metals RELINQUISHED BY SAMPLER: DATE/TIME: RECEIVED BY:

YELLOW - CHEMTECH COPY

Page

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

Shipment Complete

☐ YES ☐ NO





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

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

Fax: 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID: P3451

JACO05

Order Date: 8/1/2024 4:38:00 PM

Project Mgr:

Client Name: JACOBS Engineering Grou

Project Name: Former Schlumberger Site I

Report Type: Level 4

Client Contact: Mary I. Murphy

Invoice Contact: Mary I. Murphy

Receive DateTime: 8/1/2024_12:00:00 AM

EDD Type: CH2MHILL

Invoice Name: JACOBS Engineering Grou

Purchase Order:

17:30

Hard Copy Date:

Date Signoff:

LAB ID	CLIENT ID	MATRIX SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FA	AX DATE	DUE DATES
P3451-01	921-J-WS-080124	Water 08/01/2024	14:20						
				VOCMS Group6		8260-Low	10 Bus. Days		
P3451-02	TB-03-080124	Water 08/01/2024	15:50						
				VOCMS Group6		8260-Low	10 Bus. Days		

Relinguished By:

Date / Time: 8/2/24

7110 heft 4

Storage Area: VOA Refridgerator Room

Revised