

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: P3645

ATTENTION: Mary I. Murphy







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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Labor	atory Name :	Alliance Technical Group LLC	Client :	JACOBS Engin	eering	Grou	p, Inc		
Projec	ct Location :	Princeton Junction, NJ	Project Number :	D3779922					
Labora	atory Sample II	D(s): <u>P3645</u>	Sampling Date(s):	8/15/2024					
List D	KQP Methods l	Jsed (e.g., 8260,8270, et Cetra)	6020B,7196A,7470A,8260E	0,8270-Modified	,8270	E, 200).7		
1	specified QA/0 explain any cr	ytical method referenced in this lat QC performance criteria followed, iteria falling outside of acceptable of Known Quality performance star	including the requirement to guidelines, as specified in th		V	Yes		No	
1A	Were the meth	nod specified handling, preservation	on, and holding time requiren	nents met?	V	Yes		No	
1B		Was the EPH method conducted value of respective DKQ methods)	vithout significant modification	ons (see		Yes		No	✓ N/A
2		ples received by the laboratory in a the associated chain-of-custody do		at	V	Yes		No	
3	Were samples	received at an appropriate tempe	rature (4±2° C)?		V	Yes		No	□ N/A
4	Were all QA/C standards ac	OC performance criteria specified in hieved?	n the NJDEP DKQP			Yes	V	No	
5		ing limits specified or referenced o d to the laboratory prior to sample			V	Yes		No	
	b)Were these	reporting limits met?			V	Yes		No	□ N/A
6	results report	ytical method referenced in this lab red for all constituents identified in the DKQP documents and/or site-s	the method-specific analyte		V	Yes		No	
7	Are project-sp	ecific matrix spikes and/or laborate	ory 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."



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

Cover Page

Order ID: P3645

Project ID: Former Schlumberger Site Princeton NJ

Client: JACOBS Engineering Group, Inc.

Lab Sample Number

Client Sample Number

P3645-01 914-J-WS-081524 P3645-02 916-J-WS-081524 P3645-03 TB-02-081524

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 :

NYDOH CERTIFICATION NO - 11376

APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/30/2024, 9:37:42 AM

NJDEP CERTIFICATION NO - 20012



CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3645 Test Name: VOCMS Group6

A. Number of Samples and Date of Receipt:

3 Water samples were received on 08/15/2024.

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:

This data package has been revised due to parameter list changed.

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

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. Pantya





CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3645 Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

3 Water samples were received on 08/15/2024.

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 BN033489.D met the requirements except for 2,4,6-Tribromophenol and 2-Fluorophenol, The failure compounds not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN033507.D met the requirements except for 2,4,6-Tribromophenol and 2-Fluorophenol, The failure compounds not associated with the client parameters list, 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
Signature	The state of the s





CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3645 Test Name: SVOCMS Group6

A. Number of Samples and Date of Receipt:

3 Water samples were received on 08/15/2024.

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 samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-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.

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 % RSD is greater than 15% in the Initial Calibration (8270-BP081324.M) for 2,4-Dinitrotoluene, this compound is passing on Linear Regression.

The Continuous Calibration File ID BM047273.D met the requirements except for Pyridine is failing marginally low therefore no corrective action taken.





The Continuous Calibration File ID BP021592.D met the requirements except for 2,4-Dinitrotoluene,Pentachlorophenol and 2,4,6-Tribromophenol but associated QC within limits therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:

This data package has been revised due to parameter list changed.

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. Pankya





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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3645 Test Name: Metals Group5

A. Number of Samples and Date of Receipt:

3 Water samples were received on 08/15/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, Metals Group5, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for Metals Group5.

C. Analytical Techniques:

The analysis and digestion of Metals Group5 was based on method 200.7.

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 Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

E. Additional Comments:

This Data Package has been revised due to Metals Group5 test added as per Client Request.

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. Pankya

APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/30/2024, 9:38:35 AM





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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3645

Test Name: Metals Group4, Mercury

A. Number of Samples and Date of Receipt:

3 Water samples were received on 08/15/2024.

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 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 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:

This Data Package has been revised due to Parameter List Change.

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.

Signature	N	N	Panlya	





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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3645

Test Name: Hexavalent Chromium

A. Number of Samples and Date of Receipt:

3 Water samples were received on 08/15/2024.

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.

Signature N. N. Pankya

APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/30/2024, 9:38:54 AM



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
- interreteree
- 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



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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3645

	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	✓
Is the chain of custody signed and complete	<u>√</u> <u>√</u> <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> <u>*</u> <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?	' ' ' ' ' ' ' '
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	<u> </u>

SOHIL JODHANI Date: 10/28/2024 **QA Review Signature:**



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Hit Summary Sheet SW-846

SDG No.: P3645

Client: JACOBS Engineering Group, Inc.



Sample ID	Client ID	Matrix	Parameter	Concentration	ı C	MDL	RDL	Units
Client ID: P3645-01	914-J-WS-081524 914-J-WS-081524	Water	Chloromethane	1.40		0.35	1.00	ug/L
P3645-01	914-J-WS-081524	Water	Acetone	4.20	J	1.40	5.00	ug/L
			Total Voc:	5.0	60			
			Total Concentration:	5.6	30			





А



SAMPLE DATA



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SDG No.:

P3645

Report of Analysis

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

Project: Date Collected: 08/15/24

Project: Former Schlumberger Site Princeton NJ Date Received: 08/15/24

Lab Sample ID: P3645-01 Matrix: Water

914-J-WS-081524

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

VN083380.D 1 08/19/24 18:17 VN081924

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	1.40		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
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	4.20	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
75-34-3	1,1-Dichloroethane	0.23	U	0.23	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

08/15/24

P3645

LOW



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Level:

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected:

ID: 0.25

RXI-624

Former Schlumberger Site Princeton NJ Date Received: 08/15/24

Client Sample ID: 914-J-WS-081524 SDG No.:

Lab Sample ID: P3645-01 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:

Prep Method:

Project:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VN083380.D 1 08/19/24 18:17 VN081924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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
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	52.8		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		70 (75) - 130 (124)	98%	SPK: 50
2037-26-5	Toluene-d8	48.0		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STAN	NDARDS					
363-72-4	Pentafluorobenzene	136000	8.224			
540-36-3	1,4-Difluorobenzene	268000	9.1			
3114-55-4	Chlorobenzene-d5	276000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	121000	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



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Report of Analysis

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

Project: Former Schlumberger Site Princeton NJ Date Received: 08/15/24

Client Sample ID: 916-J-WS-081524 SDG No.: P3645

Lab Sample ID: P3645-02 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

VN083381.D 1 08/19/24 18:42 VN081924

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
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	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
75-34-3	1,1-Dichloroethane	0.23	U	0.23	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

08/15/24

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SW8260

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% Solid:

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected:

Project: Former Schlumberger Site Princeton NJ Date Received: 08/15/24

P3645 Client Sample ID: 916-J-WS-081524 SDG No.:

Lab Sample ID: P3645-02 Matrix: Water

Analytical Method: Final Vol: Sample Wt/Vol: 5 Units: mL5000

Test: VOCMS Group6 Soil Aliquot Vol: uL

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

Prep Method:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VN083381.D 1 08/19/24 18:42 VN081924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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
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	50.8		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	47.7		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STA	ANDARDS					
363-72-4	Pentafluorobenzene	133000	8.224			
540-36-3	1,4-Difluorobenzene	261000	9.1			
3114-55-4	Chlorobenzene-d5	266000	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



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Report of Analysis

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

Project: Former Schlumberger Site Princeton NJ Date Received: 08/15/24

Client Sample ID: TB-02-081524 SDG No.: P3645

Lab Sample ID: P3645-03 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:

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

VN083439.D 1 08/22/24 16:33 VN082224

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
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	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
75-34-3	1,1-Dichloroethane	0.23	U	0.23	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

08/15/24

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SW8260

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% Solid:

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected:

Project: Former Schlumberger Site Princeton NJ Date Received: 08/15/24

P3645 Client Sample ID: TB-02-081524 SDG No.:

Lab Sample ID: P3645-03 Matrix: Water

Analytical Method: Final Vol: Sample Wt/Vol: 5 Units: mL5000

Test: VOCMS Group6 Soil Aliquot Vol: uL

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

Prep Method:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VN083439.D 1 08/22/24 16:33 VN082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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
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	56.5		70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	48.4		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.8		70 (77) - 130 (121)	114%	SPK: 50
INTERNAL STA	ANDARDS					
363-72-4	Pentafluorobenzene	126000	8.224			
540-36-3	1,4-Difluorobenzene	258000	9.1			
3114-55-4	Chlorobenzene-d5	278000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	132000	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: P3645

Client: JACOBS Engineering Group, Inc.

Contact: Mary I. Murphy

OrderDate: 8/15/2024 9:40:00 PM

Project: Former Schlumberger Site Princeton NJ

Location: G21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3645-01	914-J-WS-081524	Water			08/15/24			08/15/24
			VOCMS Group6	8260-Low			08/19/24	
P3645-02	916-J-WS-081524	Water			08/15/24			08/15/24
			VOCMS Group6	8260-Low			08/19/24	
P3645-03	TB-02-081524	Water			08/15/24			08/15/24
			VOCMS Group6	8260-Low			08/22/24	





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Hit Summary Sheet SW-846

SDG No.: P3645

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Parameter		Concentration	\mathbf{C}	MDL	RDL	Units
Client ID:	914-J-WS-081524							
P3645-01	914-J-WS-081524	WATER	Naphthalene	0.050	J	0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Acenaphthene	0.190		0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Fluorene	0.180		0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Phenanthrene	0.030	J	0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Anthracene	0.020	J	0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Fluoranthene	0.060	J	0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Pyrene	0.040	J	0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Benzo(a)anthracene	0.040	J	0.02	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Chrysene	0.060	J	0.03	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Benzo(b)fluoranthene	0.060	J	0.03	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Benzo(k)fluoranthene	0.050	J	0.03	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Indeno(1,2,3-cd)pyrene	0.040	J	0.04	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Dibenzo(a,h)anthracene	0.040	J	0.04	0.1	ug/L
P3645-01	914-J-WS-081524	WATER	Benzo(g,h,i)perylene	0.040	J	0.04	0.1	ug/L
			Total Svoc:		0.	90		
			Total Concentration:		0	.90		
Client ID:	916-J-WS-081524							
P3645-02	916-J-WS-081524	WATER	Naphthalene	0.030	J	0.02	0.1	ug/L
P3645-02	916-J-WS-081524	WATER	Acenaphthene	0.090	J	0.02	0.1	ug/L
P3645-02	916-J-WS-081524	WATER	Fluorene	0.130		0.02	0.1	ug/L
P3645-02	916-J-WS-081524	WATER	Phenanthrene	0.030	J	0.02	0.1	ug/L
P3645-02	916-J-WS-081524	WATER	Fluoranthene	0.060	J	0.02	0.1	ug/L
P3645-02	916-J-WS-081524	WATER	Pyrene	0.030	J	0.02	0.1	ug/L
P3645-02	916-J-WS-081524	WATER	Chrysene	0.030	J	0.03	0.1	ug/L
			Total Svoc:		0.	40		
			Total Concentration:		0	.40		

P3645 **27 of 58** Revised





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Test:





Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/15/24 Date Received: Project: Former Schlumberger Site Princeton NJ 08/15/24

Client Sample ID: 914-J-WS-081524 SDG No.: P3645 Lab Sample ID: P3645-01 Matrix: Water

Analytical Method: % Solid: 0 SW8270SIM

uL

Sample Wt/Vol: 980 Units: mL Final Vol: 1000 uL SVOCMS Group3

Level: Extraction Type: Decanted: Ν LOW

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

SW3510C Prep Method:

Soil Aliquot Vol:

File ID/Qc Batch: Dilution: Prep Batch ID Prep Date Date Analyzed 1 BN033512.D 08/16/24 10:33 08/20/24 18:52 PB162787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.050	J	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	0.19		0.020	0.10	ug/L
86-73-7	Fluorene	0.18		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.030	J	0.020	0.10	ug/L
120-12-7	Anthracene	0.020	J	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	0.040	J	0.020	0.10	ug/L
218-01-9	Chrysene	0.060	J	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.060	J	0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.050	J	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	J	0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	J	0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	J	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	0.26		30 (20) - 150 (139)	64%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 (30) - 150 (150)	70%	SPK: 0.4
367-12-4	2-Fluorophenol	0.12		15 (10) - 110 (100)	31%	SPK: 0.4
13127-88-3	Phenol-d6	0.088		15 (10) - 110 (100)	22%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		30 (27) - 130 (123)	61%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		30 (34) - 130 (132)	69%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.21		15 (10) - 110 (131)	53%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.32		30 (35) - 130 (157)	80%	SPK: 0.4
INTERNAL STA	ANDARDS					
3855-82-1	1,4-Dichlorobenzene-d4	7580	7.552			



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Report of Analysis

Client: JACOBS Engineering Group, Inc.

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Date Collected: 08/15/24

SVOCMS Group3

Test:

Project: Former Schlumberger Site Princeton NJ Date Received: 08/15/24

Client Sample ID: 914-J-WS-081524 SDG No.: P3645

Lab Sample ID: P3645-01 Matrix: Water

Analytical Method: SW8270SIM % Solid: 0

Sample Wt/Vol: 980 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

Soil Aliquot Vol:

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

 BN033512.D
 1
 08/16/24 10:33
 08/20/24 18:52
 PB162787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1146-65-2	Naphthalene-d8	20200	10.314			
15067-26-2	Acenaphthene-d10	10200	14.189			
1517-22-2	Phenanthrene-d10	20200	16.929			
1719-03-5	Chrysene-d12	12900	21.148			
1520-96-3	Pervlene-d12	12200	23 315			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products





Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/15/24 Project: Date Received: 08/15/24 Former Schlumberger Site Princeton NJ

Client Sample ID: 916-J-WS-081524 SDG No.: P3645 Lab Sample ID: P3645-02 Matrix: Water % Solid: 0 Analytical Method: SW8270SIM

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

Decanted: Level: LOW Extraction Type: Ν

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

SW3510C Prep Method:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID BN033513.D 1 08/16/24 10:33 08/20/24 19:28 PB162787

D10055015.D		08/10/24 10.33		06/20/24 17.26	1 D102/07	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.030	J	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	0.090	J	0.020	0.10	ug/L
86-73-7	Fluorene	0.13		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.030	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	0.030	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	J	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	U	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	0.27		30 (20) - 150 (139)	68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 (30) - 150 (150)	83%	SPK: 0.4
367-12-4	2-Fluorophenol	0.14		15 (10) - 110 (100)	34%	SPK: 0.4
13127-88-3	Phenol-d6	0.089		15 (10) - 110 (100)	22%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		30 (27) - 130 (123)	68%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		30 (34) - 130 (132)	76%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.23		15 (10) - 110 (131)	57%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.29		30 (35) - 130 (157)	73%	SPK: 0.4
INTERNAL STA	NDARDS					
3855-82-1	1,4-Dichlorobenzene-d4	7720	7.552			



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Test:

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/15/24 Project: Former Schlumberger Site Princeton NJ Date Received: 08/15/24

Client Sample ID: 916-J-WS-081524 SDG No.: P3645

Lab Sample ID: P3645-02 Matrix: Water Analytical Method: % Solid: SW8270SIM 0

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

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

uL

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 BN033513.D 1 08/16/24 10:33 08/20/24 19:28 PB162787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1146-65-2	Naphthalene-d8	19600	10.314			
15067-26-2	Acenaphthene-d10	9100	14.188			
1517-22-2	Phenanthrene-d10	18000	16.929			
1719-03-5	Chrysene-d12	14700	21.139			
1520-96-3	Pervlene-d12	14900	23 311			

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: P3645

Client: JACOBS Engineering Group, Inc.

Contact: Mary I. Murphy

OrderDate: 8/15/2024 9:40:00 PM

Project: Former Schlumberger Site Princeton NJ

Location: G21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3645-01	914-J-WS-081524	Water			08/15/24			08/15/24
			SVOCMS Group3	8270-Modifie d		08/16/24	08/20/24	
P3645-02	916-J-WS-081524	Water			08/15/24			08/15/24
			SVOCMS Group3	8270-Modifie d		08/16/24	08/20/24	





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

A

В

D

Hit Summary Sheet SW-846

SDG No.: P3645

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



Е

SAMPLE DATA

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: 08/15/24

Test:

Project: Former Schlumberger Site Princeton NJ Date Received: 08/15/24

Client Sample ID: 914-J-WS-081524 SDG No.: P3645

Lab Sample ID: P3645-01 Matrix: Water

Analytical Method: SW8270 % Solid: 0

uL

Sample Wt/Vol: 970 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

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 1
 08/16/24 10:33
 08/20/24 21:34
 PB162788

		70, 10, 21, 11, 10, 10				
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
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.3	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.20	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	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
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	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
120-12-7	Anthracene	1.10	U	1.10	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



Report of Analysis

Client: JACOBS Engineering Group. Inc. Date Co

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

Project: Former Schlumberger Site Princeton NJ Date Received: 08/15/24

Client Sample ID: 914-J-WS-081524 SDG No.: P3645

Lab Sample ID: P3645-01 Matrix: Water

Analytical Method: SW8270 % Solid: 0

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

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 08/20/24 21:34
 PB162788

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.20	ug/L
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	0.89	U	0.89	5.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	80.6		15 (10) - 110 (139)	54%	SPK: 150
13127-88-3	Phenol-d6	49.9		15 (10) - 110 (134)	33%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.5		30 (49) - 130 (133)	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.1		30 (52) - 130 (132)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	129		15 (44) - 110 (137)	86%	SPK: 150
1718-51-0	Terphenyl-d14	88.3		30 (48) - 130 (125)	88%	SPK: 100
INTERNAL STA	ANDARDS					
3855-82-1	1,4-Dichlorobenzene-d4	298000	7.357			
1146-65-2	Naphthalene-d8	1090000	10.11			
15067-26-2	Acenaphthene-d10	684000	14.016			
1517-22-2	Phenanthrene-d10	1320000	16.78			
1719-03-5	Chrysene-d12	1060000	21.021			
1520-96-3	Perylene-d12	1120000	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



Client:

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

Report of Analysis

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

Project: Former Schlumberger Site Princeton NJ Date Received: 08/15/24

Client Sample ID: 916-J-WS-081524 SDG No.: P3645

Lab Sample ID: P3645-02 Matrix: Water

Analytical Method: SW8270 % Solid: 0

 $Sample \ Wt/Vol: \qquad 970 \qquad Units: \quad mL \qquad \qquad Final \ Vol: \qquad 1000 \qquad uL$

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

 BM047281.D
 1
 08/16/24 10:33
 08/20/24 22:14
 PB162788

DIVIO+/201.D	•	06/10/24	10.55	00/20/24 22.14	24 22.14 I D102/00		
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	
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.3	ug/L	
67-72-1	Hexachloroethane	1.00	U	1.00	5.20	ug/L	
98-95-3	Nitrobenzene	1.30	U	1.30	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	
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	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	
120-12-7	Anthracene	1.10	U	1.10	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	

08/15/24



Project:

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:

Former Schlumberger Site Princeton NJ Date Received: 08/15/24

Client Sample ID: 916-J-WS-081524 SDG No.: P3645

Lab Sample ID:P3645-02Matrix:WaterAnalytical Method:SW8270% Solid:0

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

 BM047281.D
 1
 08/16/24 10:33
 08/20/24 22:14
 PB162788

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.20	ug/L
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	0.89	U	0.89	5.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	72.6		15 (10) - 110 (139)	48%	SPK: 150
13127-88-3	Phenol-d6	45.2		15 (10) - 110 (134)	30%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.9		30 (49) - 130 (133)	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.6		30 (52) - 130 (132)	82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		15 (44) - 110 (137)	88%	SPK: 150
1718-51-0	Terphenyl-d14	93.5		30 (48) - 130 (125)	94%	SPK: 100
INTERNAL STA	ANDARDS					
3855-82-1	1,4-Dichlorobenzene-d4	313000	7.357			
1146-65-2	Naphthalene-d8	1140000	10.11			
15067-26-2	Acenaphthene-d10	746000	14.016			
1517-22-2	Phenanthrene-d10	1530000	16.78			
1719-03-5	Chrysene-d12	1310000	21.021			
1520-96-3	Perylene-d12	1290000	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



LAB CHRONICLE

OrderID: P3645

Client: JACOBS Engineering Group, Inc.

Contact: Mary I. Murphy

OrderDate: 8/15/2024 9:40:00 PM

Project: Former Schlumberger Site Princeton NJ

Location: G21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3645-01	914-J-WS-081524	Water			08/15/24			08/15/24
			SVOCMS Group3	8270-Modified		08/16/24	08/20/24	
			SVOCMS Group6	8270E		08/16/24	08/20/24	
P3645-02	916-J-WS-081524	Water			08/15/24			08/15/24
			SVOCMS Group3	8270-Modified		08/16/24	08/20/24	
			SVOCMS Group6	8270E		08/16/24	08/20/24	

P3645 **40 of 58** Revised

Α

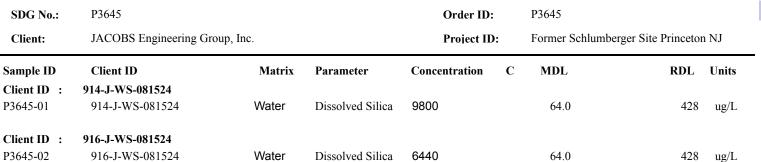
C





Fax: 908 789 8922

Hit Summary Sheet SW-846











В

SAMPLE DATA

Fax: 908 789 8922

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/15/24 Project: Date Received: Former Schlumberger Site Princeton NJ 08/15/24 Client Sample ID: 914-J-WS-081524 SDG No.: P3645 Lab Sample ID: P3645-01 Matrix: Water Level (low/med): % Solid: low

Cas	Parameter	Conc.	Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
Dissolved	Dissolved	9800	1 64.0	428	ug/L	10/24/24 11:45	10/24/24 22:34	EPA 200.7	7
Silica	Silica								

Color Before: Colorless Clarity Before: Clear

Clear

Clarity After:

Texture:

Color After: Colorless

Artifacts:

Comments:

Metals Group5

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

Fax: 908 789 8922

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/15/24 Project: Date Received: Former Schlumberger Site Princeton NJ 08/15/24 Client Sample ID: 916-J-WS-081524 SDG No.: P3645 Lab Sample ID: P3645-02 Matrix: Water Level (low/med): % Solid: low

Cas	Parameter	Conc.	Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
Dissolved	Dissolved	6440	1 64.0	428	ug/L	10/24/24 11:45	10/24/24 22:39	EPA 200.7	,
Silica	Silica								

Color Before: Colorless

ess Clarity Before:

Clear

Texture:

Color After: Co

Colorless

Clarity After:

Clear

Artifacts:

Comments:

Metals Group5

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



LAB CHRONICLE

OrderID: P3645

Client: JACOBS Engineering Group, Inc.

Contact: Mary I. Murphy

OrderDate: 8/15/2024 9:40:00 PM

Project: Former Schlumberger Site Princeton NJ

Location: G21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3645-01	914-J-WS-081524	Water			08/15/24			08/15/24
			Mercury	7470A		08/18/24	08/19/24	
			Metals Group4	6020B		09/04/24	09/04/24	
			Metals Group5	200.7		10/24/24	10/24/24	
P3645-02	916-J-WS-081524	Water			08/15/24			08/15/24
			Mercury	7470A		08/18/24	08/19/24	
			Metals Group4	6020B		09/04/24	09/04/24	
			Metals Group5	200.7		10/24/24	10/24/24	

P3645 **45 of 58** Revised

A

В

C



Fax: 908 789 8922

Hit Summary Sheet SW-846

SDG No.: P3645 **Order ID:** P3645

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	n NJ	
Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units	
Client ID:	914-J-WS-081524								
P3645-01	914-J-WS-081524	Water	Aluminum	69.1		1.98	20.0	ug/L	
P3645-01	914-J-WS-081524	Water	Antimony	0.19	J	0.11	2.00	ug/L	
P3645-01	914-J-WS-081524	Water	Arsenic	5.41		0.090	1.00	ug/L	
P3645-01	914-J-WS-081524	Water	Barium	87.4		0.30	10.0	ug/L	
P3645-01	914-J-WS-081524	Water	Calcium	31600		62.5	500	ug/L	
P3645-01	914-J-WS-081524	Water	Chromium	1.74	J	0.40	2.00	ug/L	
P3645-01	914-J-WS-081524	Water	Cobalt	4.16		0.062	1.00	ug/L	
P3645-01	914-J-WS-081524	Water	Copper	1.19	J	0.40	2.00	ug/L	
P3645-01	914-J-WS-081524	Water	Iron	6760		9.60	50.0	ug/L	
P3645-01	914-J-WS-081524	Water	Lead	1.39		0.11	1.00	ug/L	
P3645-01	914-J-WS-081524	Water	Magnesium	6330		26.6	500	ug/L	
P3645-01	914-J-WS-081524	Water	Manganese	1510		0.24	1.00	ug/L	
P3645-01	914-J-WS-081524	Water	Nickel	2.23		0.18	1.00	ug/L	
P3645-01	914-J-WS-081524	Water	Potassium	4780		46.1	500	ug/L	
P3645-01	914-J-WS-081524	Water	Sodium	157000		85.8	500	ug/L	
P3645-01	914-J-WS-081524	Water	Vanadium	1.40	J	0.072	5.00	ug/L	
P3645-01	914-J-WS-081524	Water	Zinc	52.2		0.56	5.00	ug/L	
Client ID:	916-J-WS-081524								
P3645-02	916-J-WS-081524	Water	Aluminum	50.2		1.98	20.0	ug/L	
P3645-02	916-J-WS-081524	Water	Antimony	0.20	J	0.11	2.00	ug/L	
P3645-02	916-J-WS-081524	Water	Arsenic	3.44		0.090	1.00	ug/L	
P3645-02	916-J-WS-081524	Water	Barium	67.5		0.30	10.0	ug/L	
P3645-02	916-J-WS-081524	Water	Calcium	23900		62.5	500	ug/L	
P3645-02	916-J-WS-081524	Water	Chromium	1.15	J	0.40	2.00	ug/L	
P3645-02	916-J-WS-081524	Water	Cobalt	2.29		0.062	1.00	ug/L	
P3645-02	916-J-WS-081524	Water	Copper	1.38	J	0.40	2.00	ug/L	
P3645-02	916-J-WS-081524	Water	Iron	4310		9.60	50.0	ug/L	
P3645-02	916-J-WS-081524	Water	Lead	0.90	J	0.11	1.00	ug/L	
P3645-02	916-J-WS-081524	Water	Magnesium	4760		26.6	500	ug/L	
P3645-02	916-J-WS-081524	Water	Manganese	797		0.24	1.00	ug/L	
P3645-02	916-J-WS-081524	Water	Nickel	1.62		0.18	1.00	ug/L	
P3645-02	916-J-WS-081524	Water	Potassium	3560		46.1	500	ug/L	
P3645-02	916-J-WS-081524	Water	Sodium	109000		85.8	500	ug/L	
P3645-02	916-J-WS-081524	Water	Vanadium	0.79	J	0.072	5.00	ug/L	
P3645-02	916-J-WS-081524	Water	Zinc	64.2		0.56	5.00	ug/L	











SAMPLE DATA



Fax: 908 789 8922

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/15/24 Project: Date Received: Former Schlumberger Site Princeton NJ 08/15/24 Client Sample ID: 914-J-WS-081524 SDG No.: P3645 Lab Sample ID: P3645-01 Matrix: Water Level (low/med): % Solid: 0 low

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	69.1		1	1.98	20.0	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-36-0	Antimony	0.19	J	1	0.11	2.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-38-2	Arsenic	5.41	*	1	0.090	1.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-39-3	Barium	87.4		1	0.30	10.0	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-41-7	Beryllium	0.16	U	1	0.16	1.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-43-9	Cadmium	0.30	U	1	0.30	1.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-70-2	Calcium	31600		1	62.5	500	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-47-3	Chromium	1.74	J	1	0.40	2.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-48-4	Cobalt	4.16		1	0.062	1.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-50-8	Copper	1.19	J	1	0.40	2.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7439-89-6	Iron	6760		1	9.60	50.0	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7439-92-1	Lead	1.39		1	0.11	1.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7439-95-4	Magnesium	6330		1	26.6	500	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7439-96-5	Manganese	1510		1	0.24	1.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	08/18/24 13:50	08/19/24 12:13	SW7470A	L
7440-02-0	Nickel	2.23		1	0.18	1.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-09-7	Potassium	4780		1	46.1	500	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7782-49-2	Selenium	1.38	U	1	1.38	5.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-22-4	Silver	0.077	UN	1	0.077	1.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-23-5	Sodium	157000		1	85.8	500	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-28-0	Thallium	0.085	U	1	0.085	1.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-62-2	Vanadium	1.40	J	1	0.072	5.00	ug/L	09/04/24 12:30	09/04/24 16:10	SW6020	3010A
7440-66-6	Zinc	52.2		1	0.56	5.00	ug/L	09/04/24 12:30	09/04/24 16:10	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



Fax: 908 789 8922

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/15/24 Project: Date Received: Former Schlumberger Site Princeton NJ 08/15/24 Client Sample ID: 916-J-WS-081524 SDG No.: P3645 Lab Sample ID: P3645-02 Matrix: Water Level (low/med): % Solid: 0 low

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	50.2		1	1.98	20.0	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-36-0	Antimony	0.20	J	1	0.11	2.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-38-2	Arsenic	3.44	*	1	0.090	1.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-39-3	Barium	67.5		1	0.30	10.0	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-41-7	Beryllium	0.16	U	1	0.16	1.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-43-9	Cadmium	0.30	U	1	0.30	1.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-70-2	Calcium	23900		1	62.5	500	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-47-3	Chromium	1.15	J	1	0.40	2.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-48-4	Cobalt	2.29		1	0.062	1.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-50-8	Copper	1.38	J	1	0.40	2.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7439-89-6	Iron	4310		1	9.60	50.0	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7439-92-1	Lead	0.90	J	1	0.11	1.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7439-95-4	Magnesium	4760		1	26.6	500	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7439-96-5	Manganese	797		1	0.24	1.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	08/18/24 13:50	08/19/24 12:15	SW7470A	<u>.</u>
7440-02-0	Nickel	1.62		1	0.18	1.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-09-7	Potassium	3560		1	46.1	500	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7782-49-2	Selenium	1.38	U	1	1.38	5.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-22-4	Silver	0.077	UN	1	0.077	1.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-23-5	Sodium	109000		1	85.8	500	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-28-0	Thallium	0.085	U	1	0.085	1.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-62-2	Vanadium	0.79	J	1	0.072	5.00	ug/L	09/04/24 12:30	09/04/24 16:13	SW6020	3010A
7440-66-6	Zinc	64.2		1	0.56	5.00	ug/L	09/04/24 12:30	09/04/24 16:13	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

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OR = Over Range





LAB CHRONICLE

OrderID: P3645

Client: JACOBS Engineering Group, Inc.

Contact: Mary I. Murphy

OrderDate: 8/15/2024 9:40:00 PM

Project: Former Schlumberger Site Princeton NJ

Location: G21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3645-01	914-J-WS-081524	Water			08/15/24			08/15/24
			Mercury	7470A		08/18/24	08/19/24	
			Metals Group4	6020B		09/04/24	09/04/24	
P3645-02	916-J-WS-081524	Water			08/15/24			08/15/24
			Mercury	7470A		08/18/24	08/19/24	
			Metals Group4	6020B		09/04/24	09/04/24	







SAMPLE DATA



Matrix:



P3645-01

Lab Sample ID:

Chromium

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/15/24 13:35

Project: Former Schlumberger Site Princeton NJ Date Received: 08/15/24

Client Sample ID: 914-J-WS-081524 SDG No.: P3645 WATER

% Solid: 0

Parameter	Conc. Qua	a. Di	F MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent	0.0030 U	1	0.0030	0.010	mg/L		08/16/24 10:14	1 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





Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/15/24 14:25

Project: Former Schlumberger Site Princeton NJ Date Received: 08/15/24

Client Sample ID: 916-J-WS-081524 SDG No.: P3645

Lab Sample ID: P3645-02 Matrix: WATER

% Solid: 0

Parameter	Conc. Qua	. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana. A	ana Met.
Dissolved Hexavalent	0.0030 U	1 0.0030	0.010	mg/L		08/16/24 10:15	7196A
Chromium							

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





LAB CHRONICLE

OrderID: P3645

Client:

JACOBS Engineering Group, Inc.

Contact: Mary I. Murphy

OrderDate: 8/15/2024 9:40:00 PM

Project: Former Schlumberger Site Princeton NJ

Location: G21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method Sample Date		Prep Date Anal Date		Received
P3645-01	914-J-WS-081524	WATER			08/15/24			08/15/24
			Hexavalent Chromium	7196A	13:35		08/16/24 10:14	
P3645-02	916-J-WS-081524	WATER			08/15/24 14:25			08/15/24
			Hexavalent Chromium	7196A			08/16/24 10:15	





SHIPPING DOCUMENTS



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

CHEMTECH PROJECT NO. P3645 QUOTE NO.

coc Number 2041326

	CLIENT INFORMATION			CLIENT	PROJECT I	NFORM	IATION			1771	- 1		CLIE	NT BILL	ING INF	ORMATION		
COMPANY:	No. No. of the Contract of the	PROJE	CT N/	ME: S T	L PTC					BILL	то: 🖊	lary	Mon	sky		PO#:		
ADDRESS: 4/12 Mt Kemble Are Suite # 100			PROJECT NO.: D377492Z LOCATION: Princeten Junchin ADDRESS:															
CITY MONUSOWN STATE: N. 7 ZIP: 07960			-1 11								CITY				STA	STATE: ZIP:		
ATTENTION: John Ynfante											ATTENTION: PHONE:					DNE.		
	\\\\\-1719 FAX:	DHONE.	PHONE: (201) 936-0586 FAX:								14.71	ANALYSIS						
	DATA TURNAROUND INFORMATION	THONE.			ERABLE II		TATION					A.	18					
HARDCOPY (DA EDD:*TO BE APPRO	ATA PACKAGE): DAYS* DAYS* DAYS* VED BY CHEMTECH RDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS	Level	1 (Resu 2 (Resu 3 (Resu w Data)	Its Only) Its + QC) Its + QC	Level 4 (Quality of the NJ Reduce NYS ASP) Other	C + Full ed □ L A □ N	Raw Dat	a) LP	one is	A Charles	100 S	THE PARTY	TOE I	SIM	/9			
СНЕМТЕСН			SAMP		AMPLE	<u> </u>	3.4	101		PRE	SERVA	TIVES				7	MMENTS	
SAMPLE	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	TYPI	E COL	LECTION TIME	# OF BOTTLES	A/E	2	3/E	E	E 5	6	7	8	9	← Specit A-HCI B-HN03 C-H2SO4	D-NaOH E-ICE	
1.	944-J-WS-081524	lus)	8-15-	1 1335	8	Z	40	Ť	1	4		1		9	O-H2304	F-OTHER	
2.	916-5-45-081524	WS	1		4 1425	8	2	NO		1	4			i –				
3.	TB-07-081524	Di)		1530	1	ľ			•	Ė							
4.	•				11.00	1												
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RELINQUISHED BY 1. AU RELINQUISHED BY 2.	SAMPLER: DATE/TIME: REGENED BY: 2.	\		G Cond	Illitions of bottles nents:	s or coole atta	rs at received	table	OMPLIANT	requi	n compli	nalyh	COOLER T		-	.66	С	
RELINDUISHED BY	PATE/TIME: 1820 RECEIVED BY: 3. WHITE - CHEMTEC			Pag			CLIENT CHEMTI ITECH CO	ECH:	Q Pick	elivered ed Up SAMPLE		ther	ling				Complete NO	





Laboratory Certification

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

Fax: 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID: P3645

JACO05

Order Date: 8/15/2024 9:40:00 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: 8/15/2024 6:20:00 PM

EDD Type: CH2MHILL

Invoice Name: JACOBS Engineering Grou

Purchase Order:

Hard Copy Date:

Date Signoff:

LAB ID	CLIENT ID	MATRIX SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
P3645-01	914-J-WS-081524	Water 08/15/2024	13:35					-	
				VOCMS Group6		8260-Low	10 Bus. Days		
P3645-02	916-J-WS-081524	Water 08/15/2024	14:25						
				VOCMS Group6		8260-Low	10 Bus. Days		
P3645-03	TB-02-081524	Water 08/15/2024	15:30						
				VOCMS Group6		8260-Low	10 Bus. Days		

Relinguished By:

Date / Time:

Received By:

Date / Time:

Storage Area: VOA Refridgerator Room