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

# 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 : P3657**

**ATTENTION : Mary I. Murphy**

**Laboratory Certification ID # 20012**

Table Of Contents for P3657

# DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC

Client : JACOBS Engineering Group, Inc.

Project Location : Princeton Junction, NJ

Project Number : D3779922

Laboratory Sample ID(s) : P3657

Sampling Date(s) : 08/16/2024

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **6020B,7196A,7470A,8260D,8270-Modified,8270E**

| | | |
|---|---|---|
| 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? | ☑ Yes ☐ No |
| 1A | Were the method specified handling, preservation, and holding time requirements met? | ☑ Yes ☐ No |
| 1B | EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods) | ☐ Yes ☐ No ☑ N/A |
| 2 | Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)? | ☑ Yes ☐ No |
| 3 | Were samples received at an appropriate temperature (4±2° C)? | ☑ Yes ☐ No ☐ N/A |
| 4 | Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved? | ☐ Yes ☑ No |
| 5 | a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?<br><br>b)Were these reporting limits met? | ☑ Yes ☐ No<br><br>☑ Yes ☐ 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? | ☑ Yes ☐ No |
| 7 | Are project-specific matrix spikes and/or laboratory duplicates included in this data set? | ☐ Yes ☑ No |

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

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# Cover Page

**Order ID :** P3657

**Project ID :** Former Schlumberger Site Princeton NJ

**Client :** JACOBS Engineering Group, Inc.

| Lab Sample Number | Client Sample Number |
|---|---|
| P3657-01 | 917-J-WS-081624 |
| P3657-02 | TB-01-081624 |

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 10/15/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**JACOBS Engineering Group, Inc.**
**Project Name: Former Schlumberger Site Princeton NJ**
**Project # N/A**
**Chemtech Project # P3657**
**Test Name: VOCMS Group6**

**A. Number of Samples and Date of Receipt:**
2 Water samples were received on 08/16/2024.

**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:**

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Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---

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Signature_____

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# CASE NARRATIVE

**JACOBS Engineering Group, Inc.**
**Project Name: Former Schlumberger Site Princeton NJ**
**Project # N/A**
**Chemtech Project # P3657**
**Test Name: SVOCMS Group3**

**A. Number of Samples and Date of Receipt:**
2 Water samples were received on 08/16/2024.

**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 met the requirements .
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 <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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For sample # 917-J-WS-081624 some compounds below Method detection limits, therefore it is not reported as Hit in Form-1.

**F. Manual Integration Comments:**
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---

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# CASE NARRATIVE

**JACOBS Engineering Group, Inc.**
**Project Name: Former Schlumberger Site Princeton NJ**
**Project # N/A**
**Chemtech Project # P3657**
**Test Name: SVOCMS Group6**

**A. Number of Samples and Date of Receipt:**
2 Water samples were received on 08/16/2024.

**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_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 except for 917-J-WS-081624 [2,4,6-Tribromophenol - 119%], this compound did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The RPD for {PB162822BSD} with File ID: BP021569.D met criteria except for Benzaldehyde[24%], this compound did not meet the NJDKQP criteria and in-house criteria due to difference in results of BS and BSD.

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 (8270-BP081324.M) for 2,4-Dinitrotoluene, this compound is passing on Linear Regression.

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The Continuous Calibration File ID BP021566.D met the requirements except for 2,4-Dinitrotoluene and Pentachlorophenol but associated QC within limits therefore no corrective action taken.

The Continuous Calibration File ID BP021575.D met the requirements except for 2,4-Dinitrotoluene and Pentachlorophenol but associated sample having no positive hit 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.

---

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# CASE NARRATIVE

**JACOBS Engineering Group, Inc.**
**Project Name: Former Schlumberger Site Princeton NJ**
**Project # N/A**
**Chemtech Project # P3657**
**Test Name: Metals Group4,Mercury**

**A. Number of Samples and Date of Receipt:**
2 Water samples were received on 08/16/2024.

**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 (1027MS) analysis met criteria for all samples except for Mercury 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 (1027MSD) analysis met criteria for all samples except for Mercury due to sample matrix interference. 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_____

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# CASE NARRATIVE

**JACOBS Engineering Group, Inc.**
**Project Name: Former Schlumberger Site Princeton NJ**
**Project # N/A**
**Chemtech Project # P3657**
**Test Name: Hexavalent Chromium**

**A. Number of Samples and Date of Receipt:**
2 Water samples were received on 08/16/2024.

**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:**

---

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Signature_____

# 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<br>**"P"** for ICP instrument<br>**"PM"** for ICP when Microwave Digestion is used<br>**"CV"** for Manual Cold Vapor AA<br>**"AV"** for automated Cold Vapor AA<br>**"CA"** for MIDI-Distillation Spectrophotometric<br>**"AS"** for Semi –Automated Spectrophotometric<br>**"C"** for Manual Spectrophotometric<br>**"T"** for Titrimetric<br>**"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 |

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## DATA REPORTING QUALIFIERS- ORGANIC

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

| | |
|---|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| **U** | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **J** | Indicates an estimated value**.** This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(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. |
| **B** | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| **E** | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| **D** | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| **P** | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| **N** | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |
| **A** | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product. |
| **Q** | Indicates the LCS did not meet the control limits requirements |

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** P3657

| | Completed |
|---|---|
| **For thorough review, the report must have the following:** | |
| **GENERAL:** | |
| **Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)** | ✓ |
| **Check chain-of-custody for proper relinquish/return of samples** | ✓ |
| **Is the chain of custody signed and complete** | ✓ |
| **Check internal chain-of-custody for proper relinquish/return of samples /sample extracts** | ✓ |
| **Collect information for each project id from server. Were all requirements followed** | ✓ |
| **COVER PAGE:** | |
| **Do numbers of samples correspond to the number of samples in the Chain of Custody on login page** | ✓ |
| **Do lab numbers and client Ids on cover page agree with the Chain of Custody** | ✓ |
| **CHAIN OF CUSTODY:** | |
| **Do requested analyses on Chain of Custody agree with form I results** | ✓ |
| **Do requested analyses on Chain of Custody agree with the log-in page** | ✓ |
| **Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody** | ✓ |
| **Were the samples received within hold time** | ✓ |
| **Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle** | ✓ |
| **ANALYTICAL:** | |
| **Was method requirement followed?** | ✓ |
| **Was client requirement followed?** | ✓ |
| **Does the case narrative summarize all QC failure?** | ✓ |
| **All runlogs and manual integration are reviewed for requirements** | ✓ |
| **All manual calculations and /or hand notations verified** | ✓ |

**QA Review Signature:** SOHIL JODHANI **Date:** 10/15/2024

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P3657

**Client:** JACOBS Engineering Group, Inc.

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **917-J-WS-081624** | | | | | | | |
| P3657-01 | 917-J-WS-081624 | Water | Acetone | 7.30 | | 1.40 | 5.00 | ug/L |
| | | | **Total Voc :** | 7.30 | | | | |
| | | | **Total Concentration:** | 7.30 | | | | |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/16/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/16/24 |
| Client Sample ID: | 917-J-WS-081624 | SDG No.: | P3657 |
| Lab Sample ID: | P3657-01 | 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 : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN083379.D | 1 | | 08/19/24 17:53 | 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 | 7.30 | | 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 |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/16/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/16/24 |
| Client Sample ID: | 917-J-WS-081624 | SDG No.: | P3657 |
| Lab Sample ID: | P3657-01 | 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 : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN083379.D | 1 | | 08/19/24 17:53 | 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 | 53.3 | | 70 (74) - 130 (125) | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.9 | | 70 (75) - 130 (124) | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.9 | | 70 (86) - 130 (113) | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.3 | | 70 (77) - 130 (121) | 103% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 139000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 273000 | 9.106 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 284000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 127000 | 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/16/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/16/24 |
| Client Sample ID: | TB-01-081624 | SDG No.: | P3657 |
| Lab Sample ID: | P3657-02 | 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 |
|---|---|---|---|---|
| VN083378.D | 1 | | 08/19/24 17:29 | 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 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/16/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/16/24 |
| Client Sample ID: | TB-01-081624 | SDG No.: | P3657 |
| Lab Sample ID: | P3657-02 | 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 |
|---|---|---|---|---|
| VN083378.D | 1 | | 08/19/24 17:29 | 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 | 53.1 | | 70 (74) - 130 (125) | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.6 | | 70 (75) - 130 (124) | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.7 | | 70 (86) - 130 (113) | 93% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.7 | | 70 (77) - 130 (121) | 99% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 134000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 268000 | 9.106 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 272000 | 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

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P3657 | **OrderDate:** | 8/16/2024 2:45:00 PM |
| **Client:** | JACOBS Engineering Group, Inc. | **Project:** | Former Schlumberger Site Princeton NJ |
| **Contact:** | Mary I. Murphy | **Location:** | G11,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P3657-01** | **917-J-WS-081624** | **Water** | | | **08/16/24** | | | **08/16/24** |
| | | | VOCMS Group6 | 8260-Low | | | 08/19/24 | |
| **P3657-02** | **TB-01-081624** | **Water** | | | **08/16/24** | | | **08/16/24** |
| | | | VOCMS Group6 | 8260-Low | | | 08/19/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P3657

**Client:** JACOBS Engineering Group, Inc.

| Sample ID | Client ID | | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : 917-J-WS-081624** | | | | | | | | |
| P3657-01 | 917-J-WS-081624 | WATER | Fluorene | 0.070 | J | 0.02 | 0.1 | ug/L |
| P3657-01 | 917-J-WS-081624 | WATER | Phenanthrene | 0.050 | J | 0.02 | 0.1 | ug/L |
| P3657-01 | 917-J-WS-081624 | WATER | Fluoranthene | 0.090 | J | 0.02 | 0.1 | ug/L |
| P3657-01 | 917-J-WS-081624 | WATER | Pyrene | 0.060 | J | 0.02 | 0.1 | ug/L |
| P3657-01 | 917-J-WS-081624 | WATER | Benzo(a)anthracene | 0.050 | J | 0.02 | 0.1 | ug/L |
| P3657-01 | 917-J-WS-081624 | WATER | Chrysene | 0.080 | J | 0.03 | 0.1 | ug/L |
| P3657-01 | 917-J-WS-081624 | WATER | Benzo(b)fluoranthene | 0.070 | J | 0.03 | 0.1 | ug/L |
| P3657-01 | 917-J-WS-081624 | WATER | Benzo(k)fluoranthene | 0.050 | J | 0.04 | 0.1 | ug/L |
| P3657-01 | 917-J-WS-081624 | WATER | Indeno(1,2,3-cd)pyrene | 0.050 | J | 0.04 | 0.1 | ug/L |
| P3657-01 | 917-J-WS-081624 | WATER | Dibenzo(a,h)anthracene | 0.040 | J | 0.04 | 0.1 | ug/L |
| P3657-01 | 917-J-WS-081624 | WATER | Benzo(g,h,i)perylene | 0.050 | J | 0.04 | 0.1 | ug/L |
| | | | **Total Svoc :** | **0.66** | | | | |
| | | | **Total Concentration:** | **0.66** | | | | |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/16/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/16/24 |
| Client Sample ID: | 917-J-WS-081624 | SDG No.: | P3657 |
| Lab Sample ID: | P3657-01 | Matrix: | Water |
| Analytical Method: | SW8270SIM | % Solid: | 0 |
| Sample Wt/Vol: | 960 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 |
|---|---|---|---|---|
| BN033501.D | 1 | 08/19/24 09:50 | 08/20/24 12:11 | PB162821 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 91-20-3 | Naphthalene | 0.030 | U | 0.030 | 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 | 0.070 | J | 0.020 | 0.10 | ug/L |
| 85-01-8 | Phenanthrene | 0.050 | J | 0.020 | 0.10 | ug/L |
| 120-12-7 | Anthracene | 0.030 | U | 0.030 | 0.10 | ug/L |
| 206-44-0 | Fluoranthene | 0.090 | J | 0.020 | 0.10 | ug/L |
| 129-00-0 | Pyrene | 0.060 | J | 0.020 | 0.10 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 0.050 | J | 0.020 | 0.10 | ug/L |
| 218-01-9 | Chrysene | 0.080 | J | 0.030 | 0.10 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 0.070 | J | 0.030 | 0.10 | ug/L |
| 207-08-9 | Benzo(k)fluoranthene | 0.050 | J | 0.040 | 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 | 0.050 | 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 | 0.050 | J | 0.040 | 0.10 | ug/L |
| 123-91-1 | 1,4-Dioxane | 0.070 | U | 0.070 | 0.21 | ug/L |
| **SURROGATES** | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.31 | | 30 (20) - 150 (139) | 77% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.37 | | 30 (30) - 150 (150) | 93% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.29 | | 30 (27) - 130 (123) | 73% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.31 | | 30 (34) - 130 (132) | 78% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.46 | | 30 (35) - 130 (157) | 115% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7400 | 7.552 | | | |
| 1146-65-2 | Naphthalene-d8 | 19900 | 10.314 | | | |
| 15067-26-2 | Acenaphthene-d10 | 10400 | 14.189 | | | |
| 1517-22-2 | Phenanthrene-d10 | 21000 | 16.942 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/16/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/16/24 |
| Client Sample ID: | 917-J-WS-081624 | SDG No.: | P3657 |
| Lab Sample ID: | P3657-01 | Matrix: | Water |
| Analytical Method: | SW8270SIM | % Solid: | 0 |
| Sample Wt/Vol: | 960 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 |
|---|---|---|---|---|
| BN033501.D | 1 | 08/19/24 09:50 | 08/20/24 12:11 | PB162821 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 1719-03-5 | Chrysene-d12 | 13100 | 21.148 | | | |
| 1520-96-3 | Perylene-d12 | 12700 | 23.323 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P3657 | **OrderDate:** | 8/16/2024 2:45:00 PM |
| **Client:** | JACOBS Engineering Group, Inc. | **Project:** | Former Schlumberger Site Princeton NJ |
| **Contact:** | Mary I. Murphy | **Location:** | G11,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P3657-01** | **917-J-WS-081624** | **Water** | | | **08/16/24** | | | **08/16/24** |
| | | | SVOCMS Group3 | 8270-Modified | | 08/19/24 | 08/20/24 | |
| | | | SVOCMS Group6 | 8270E | | 08/19/24 | 08/21/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P3657

**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** | | |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/16/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/16/24 |
| Client Sample ID: | 917-J-WS-081624 | SDG No.: | P3657 |
| Lab Sample ID: | P3657-01 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 960 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 |
|---|---|---|---|---|
| BP021589.D | 1 | 08/19/24 09:40 | 08/21/24 02:44 | PB162822 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 1.60 | U | 1.60 | 5.20 | ug/L |
| 100-52-7 | Benzaldehyde | 4.20 | U | 4.20 | 10.4 | ug/L |
| 95-48-7 | 2-Methylphenol | 1.20 | U | 1.20 | 5.20 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 1.20 | U | 1.20 | 10.4 | ug/L |
| 67-72-1 | Hexachloroethane | 1.10 | U | 1.10 | 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 | 0.93 | U | 0.93 | 5.20 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 1.10 | U | 1.10 | 5.20 | ug/L |
| 208-96-8 | Acenaphthylene | 1.10 | U | 1.10 | 5.20 | ug/L |
| 83-32-9 | Acenaphthene | 0.84 | U | 0.84 | 5.20 | ug/L |
| 132-64-9 | Dibenzofuran | 0.97 | U | 0.97 | 5.20 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.60 | U | 1.60 | 5.20 | ug/L |
| 86-73-7 | Fluorene | 1.00 | U | 1.00 | 5.20 | ug/L |
| 118-74-1 | Hexachlorobenzene | 1.20 | U | 1.20 | 5.20 | ug/L |
| 87-86-5 | Pentachlorophenol | 1.90 | U | 1.90 | 10.4 | ug/L |
| 85-01-8 | Phenanthrene | 0.93 | U | 0.93 | 5.20 | ug/L |
| 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 | 0.98 | U | 0.98 | 5.20 | ug/L |
| 218-01-9 | Chrysene | 0.90 | U | 0.90 | 5.20 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 2.00 | U | 2.00 | 5.20 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 1.20 | U | 1.20 | 5.20 | ug/L |
| 207-08-9 | Benzo(k)fluoranthene | 1.20 | U | 1.20 | 5.20 | ug/L |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/16/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/16/24 |
| Client Sample ID: | 917-J-WS-081624 | SDG No.: | P3657 |
| Lab Sample ID: | P3657-01 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 960 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 |
|---|---|---|---|---|
| BP021589.D | 1 | 08/19/24 09:40 | 08/21/24 02:44 | PB162822 |

| 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 | 0.90 | U | 0.90 | 5.20 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 52.1 | | 15 (10) - 110 (139) | 35% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 32.9 | | 15 (10) - 110 (134) | 22% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 82.0 | | 30 (49) - 130 (133) | 82% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 76.3 | | 30 (52) - 130 (132) | 76% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 179 | * | 15 (44) - 110 (137) | 119% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 96.0 | | 30 (48) - 130 (125) | 96% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 353000 | 7.805 | | | |
| 1146-65-2 | Naphthalene-d8 | 1460000 | 10.599 | | | |
| 15067-26-2 | Acenaphthene-d10 | 957000 | 14.457 | | | |
| 1517-22-2 | Phenanthrene-d10 | 2100000 | 17.269 | | | |
| 1719-03-5 | Chrysene-d12 | 1960000 | 21.727 | | | |
| 1520-96-3 | Perylene-d12 | 2260000 | 25.168 | | | |

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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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P3657 | **OrderDate:** | 8/16/2024 2:45:00 PM |
| **Client:** | JACOBS Engineering Group, Inc. | **Project:** | Former Schlumberger Site Princeton NJ |
| **Contact:** | Mary I. Murphy | **Location:** | G11,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P3657-01** | **917-J-WS-081624** | **Water** | | | **08/16/24** | | | **08/16/24** |
| | | | SVOCMS Group3 | 8270-Modified | | 08/19/24 | 08/20/24 | |
| | | | SVOCMS Group6 | 8270E | | 08/19/24 | 08/21/24 | |

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Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** P3657 **Order ID:** P3657

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

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : 917-J-WS-081624** | | | | | | | | |
| P3657-01 | 917-J-WS-081624 | Water | Aluminum | 92.1 | | 1.98 | 20.0 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Antimony | 0.23 | J | 0.11 | 2.00 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Arsenic | 1.85 | | 0.090 | 1.00 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Barium | 58.0 | | 0.30 | 10.0 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Calcium | 19400 | | 62.5 | 500 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Chromium | 1.48 | J | 0.40 | 2.00 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Cobalt | 0.60 | J | 0.062 | 1.00 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Copper | 2.68 | | 0.40 | 2.00 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Iron | 3070 | | 9.60 | 50.0 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Lead | 1.67 | | 0.11 | 1.00 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Magnesium | 3500 | | 26.6 | 500 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Manganese | 362 | | 0.24 | 1.00 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Nickel | 2.83 | | 0.18 | 1.00 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Potassium | 2760 | | 46.1 | 500 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Sodium | 72200 | | 85.8 | 500 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Vanadium | 0.94 | J | 0.072 | 5.00 | ug/L |
| P3657-01 | 917-J-WS-081624 | Water | Zinc | 11.7 | | 0.56 | 5.00 | ug/L |

# SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/16/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/16/24 |
| Client Sample ID: | 917-J-WS-081624 | SDG No.: | P3657 |
| Lab Sample ID: | P3657-01 | 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 | 92.1 | | 1 | 1.98 | 20.0 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-36-0 | Antimony | 0.23 | J | 1 | 0.11 | 2.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-38-2 | Arsenic | 1.85 | * | 1 | 0.090 | 1.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-39-3 | Barium | 58.0 | | 1 | 0.30 | 10.0 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-41-7 | Beryllium | 0.16 | U | 1 | 0.16 | 1.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-43-9 | Cadmium | 0.30 | U | 1 | 0.30 | 1.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-70-2 | Calcium | 19400 | | 1 | 62.5 | 500 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-47-3 | Chromium | 1.48 | J | 1 | 0.40 | 2.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-48-4 | Cobalt | 0.60 | J | 1 | 0.062 | 1.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-50-8 | Copper | 2.68 | | 1 | 0.40 | 2.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7439-89-6 | Iron | 3070 | | 1 | 9.60 | 50.0 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7439-92-1 | Lead | 1.67 | | 1 | 0.11 | 1.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7439-95-4 | Magnesium | 3500 | | 1 | 26.6 | 500 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7439-96-5 | Manganese | 362 | | 1 | 0.24 | 1.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7439-97-6 | Mercury | 0.081 | UN | 1 | 0.081 | 0.20 | ug/L | 08/21/24 15:15 | 08/22/24 15:53 | SW7470A | |
| 7440-02-0 | Nickel | 2.83 | | 1 | 0.18 | 1.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-09-7 | Potassium | 2760 | | 1 | 46.1 | 500 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7782-49-2 | Selenium | 1.38 | U | 1 | 1.38 | 5.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-22-4 | Silver | 0.077 | UN | 1 | 0.077 | 1.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-23-5 | Sodium | 72200 | | 1 | 85.8 | 500 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-28-0 | Thallium | 0.085 | U | 1 | 0.085 | 1.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-62-2 | Vanadium | 0.94 | J | 1 | 0.072 | 5.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |
| 7440-66-6 | Zinc | 11.7 | | 1 | 0.56 | 5.00 | ug/L | 09/04/24 12:30 | 09/04/24 16:16 | SW6020 | 3010A |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | Mercury | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P3657 | **OrderDate:** | 8/16/2024 2:45:00 PM |
| **Client:** | JACOBS Engineering Group, Inc. | **Project:** | Former Schlumberger Site Princeton NJ |
| **Contact:** | Mary I. Murphy | **Location:** | G11,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P3657-01** | **917-J-WS-081624** | **Water** | | | **08/16/24** | | | **08/16/24** |
| | | | Mercury | 7470A | | 08/21/24 | 08/22/24 | |
| | | | Metals Group4 | 6020B | | 09/04/24 | 09/04/24 | |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/16/24 09:30 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/16/24 |
| Client Sample ID: | 917-J-WS-081624 | SDG No.: | P3657 |
| Lab Sample ID: | P3657-01 | Matrix: | WATER |
| | | % Solid: | 0 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Dissolved Hexavalent Chromium | 0.0030 | U | 1 | 0.0030 | 0.010 | mg/L | | 08/16/24 17:34 | 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

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P3657 | **OrderDate:** | 8/16/2024 2:45:00 PM |
| **Client:** | JACOBS Engineering Group, Inc. | **Project:** | Former Schlumberger Site Princeton NJ |
| **Contact:** | Mary I. Murphy | **Location:** | G11,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P3657-01** | **917-J-WS-081624** | **WATER** | | | **08/16/24 09:30** | | | **08/16/24** |
| | | | Hexavalent Chromium | 7196A | | | 08/16/24 17:34 | |

# SHIPPING DOCUMENTS

# CHEMTECH
## CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO. P3657
QUOTE NO.
COC Number 2041316

10
10.1

### CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite H100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yuhanic
PHONE: (281) 414-1719 FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D3779922 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (201) 936-0586 FAX:

### CLIENT BILLING INFORMATION

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

### DATA TURNAROUND INFORMATION

FAX (RUSH) Standard TAT DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION

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

### ANALYSIS

1 VOCs 8260D
2 SVOCs - 8270E / PAHs - 8270E SIM
3 Metals 6020B, Hg 7473
4 Cr(VI) 7196A
5 Silv 6010A
6 7 8 9

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A/E | E | B/E | E | | | | | | ← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER |
| 1. | 917-J-WS-081624 | WS | | X | 8-16-24 | 0930 | 8 | 2 | 4 | 1 | 1 | | | | | | |
| 2. | TB-01-081624 | DI | | X | 8-16-24 | 1055 | 1 | 1 | | | | | | | | | TB is unpreserved! |
| 3. | | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

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

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 8-16-24 1245 | 1. |
| 2. | | 2. |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 2-4 °C
Comments: See attached table for the required analytes list

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☒ Picked Up ☐ Field Sampling

Shipment Complete ☑ YES ☐ NO



WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Table 3. Surface Water Target Analytes, Methods, Action Levels, and Control Limits

*Site Sampling Plan for Ecological Evaluation*

*Princeton Technology Center, West Windsor Township, New Jersey*

| Method | Analyte | CAS Number | Units | Higher of PQL and Ground Water Quality Criterion[a] | Fresh Surface Water Chronic NJDEP Ecological Criterion[b] |
|---|---|---|---|---|---|
| ***ECO-SVOCs*** | | | | | |
| SW8270E | 1,4-Dioxane | 123-91-1 | µg/L | 0.4 | -- |
| SW8270E | 1-Methylnaphthalene | 90-12-0 | µg/L | -- | |
| SW8270E | 2,4,5-Trichlorophenol | 95-95-4 | µg/L | 700 | |
| SW8270E | 2,4,6-Trichlorophenol | 88-06-2 | µg/L | 20 | |
| SW8270E | 2,4-Dinitrotoluene | 121-14-2 | µg/L | 10 | |
| SW8270E | 2-Methylnaphthalene | 91-57-6 | µg/L | 30 | |
| SW8270E | 2-Methylphenol | 95-48-7 | µg/L | -- | |
| SW8270E | 3 & 4-Methylphenol (m,p-Cresols) | 65794-96-9 | µg/L | -- | |
| SW8270E | Acenaphthene | 83-32-9 | µg/L | 400 | |
| SW8270E | Acenaphthylene | 208-96-8 | µg/L | -- | |
| SW8270E | Anthracene | 120-12-7 | µg/L | 2000 | |
| SW8270E | Benzaldehyde | 100-52-7 | µg/L | -- | |
| SW8270E | Benzo(a)anthracene | 56-55-3 | µg/L | -- | |
| SW8270E | Benzo(a)pyrene | 50-32-8 | µg/L | 0.1 | |
| SW8270E | Benzo(b)fluoranthene | 205-99-2 | µg/L | 0.5 | |
| SW8270E | Benzo(g,h,i)perylene | 191-24-2 | µg/L | -- | |
| SW8270E | Benzo(k)fluoranthene | 207-08-9 | µg/L | 0.5 | |
| SW8270E | Bis (2-ethylhexyl) phthalate | 117-81-7 | µg/L | -- | |
| SW8270E | Carbazole | 86-74-8 | µg/L | -- | |
| SW8270E | Chrysene | 218-01-9 | µg/L | 5 | |
| SW8270E | Dibenzo(a,h)anthracene | 53-70-3 | µg/L | 0.3 | |
| SW8270E | Dibenzofuran | 132-64-9 | µg/L | -- | |
| SW8270E | Di-N-Butylphthalate | 84-74-2 | µg/L | -- | |
| SW8270E | Fluoranthene | 206-44-0 | µg/L | 300 | |
| SW8270E | Fluorene | 86-73-7 | µg/L | 300 | |
| SW8270E | Hexachlorobenzene | 118-74-1 | µg/L | 0.02 | |
| SW8270E | Hexachlorobutadiene | 87-68-3 | µg/L | 1 | |
| SW8270E | Hexachloroethane | 67-72-1 | µg/L | 7 | |
| SW8270E | Indeno(1,2,3-Cd)Pyrene | 193-39-5 | µg/L | 0.2 | |
| SW8270E | Naphthalene | 91-20-3 | µg/L | 300 | |
| SW8270E | Nitrobenzene | 98-95-3 | µg/L | 6 | |
| SW8270E | Pentachlorophenol | 87-86-5 | µg/L | 0.3 | |
| SW8270E | Phenanthrene | 85-01-8 | µg/L | -- | |
| SW8270E | Pyrene | 129-00-0 | µg/L | 200 | |
| SW8270E | Pyridine | 110-86-1 | µg/L | -- | |
| ***ECO-VOCs*** | | | | | |
| SW8260D | 1,1,1-Trichloroethane | 71-55-6 | µg/L | 30 | 76 |

Table 3. Surface Water Target Analytes, Methods, Action Levels, and Control Limits

*Site Sampling Plan for Ecological Evaluation*

*Princeton Technology Center, West Windsor Township, New Jersey*

| Method | Analyte | CAS Number | Units | Higher of PQL and Ground Water Quality Criterion[a] | Fresh Surface Water Chronic NJDEP Ecological Criterion[b] |
|---|---|---|---|---|---|
| SW8260D | 1,1,2-Trichloroethane | 79-00-5 | µg/L | 3 | 500 |
| SW8260D | 1,1-Dichloroethane | 75-34-3 | µg/L | 50 | -- |
| SW8260D | 1,1-Dichloroethene | 75-35-4 | µg/L | 1 | 65 |
| SW8260D | 1,2-Dichlorobenzene | 95-50-1 | µg/L | 600 | 14 |
| SW8260D | 1,2-Dichloroethane | 107-06-2 | µg/L | 2 | 910 |
| SW8260D | 1,2-Dichloroethene (Total) | 540-59-0 | µg/L | | |
| SW8260D | 1,4-Dichlorobenzene | 106-46-7 | µg/L | 75 | 9.4 |
| SW8260D | 2-Butanone | 78-93-3 | µg/L | 300 | -- |
| SW8260D | Acetone | 67-64-1 | µg/L | 6000 | -- |
| SW8260D | Benzene | 71-43-2 | µg/L | 1 | 114 |
| SW8260D | Bromodichloromethane | 75-27-4 | µg/L | 1 | -- |
| SW8260D | Bromomethane | 74-83-9 | µg/L | 10 | -- |
| SW8260D | Carbon disulfide | 75-15-0 | µg/L | 700 | -- |
| SW8260D | Carbon tetrachloride | 56-23-5 | µg/L | 1 | 240 |
| SW8260D | Chlorobenzene | 108-90-7 | µg/L | 50 | 47 |
| SW8260D | Chloroethane | 75-00-3 | µg/L | -- | -- |
| SW8260D | Chloroform | 67-66-3 | µg/L | 70 | 140 |
| SW8260D | Chloromethane | 74-87-3 | µg/L | -- | -- |
| SW8260D | cis-1,2-Dichloroethene | 156-59-2 | µg/L | 70 | -- |
| SW8260D | Cyclohexane | 110-82-7 | µg/L | -- | -- |
| SW8260D | Dibromochloromethane | 124-48-1 | µg/L | 1 | -- |
| SW8260D | Dichlorodifluoromethane | 75-71-8 | µg/L | 1000 | -- |
| SW8260D | Ethylbenzene | 100-41-4 | µg/L | 700 | 14 |
| SW8260D | Freon TF | 76-13-1 | µg/L | 20000 | -- |
| SW8260D | Isopropylbenzene | 98-82-8 | µg/L | 700 | -- |
| SW8260D | m&p-Xylene | 179601-23-1 | µg/L | 1000 | 27 |
| SW8260D | Methylcyclohexane | 108-87-2 | µg/L | -- | -- |
| SW8260D | Methylene Chloride | 75-09-2 | µg/L | 3 | 940 |
| SW8260D | MTBE | 1634-04-4 | µg/L | 70 | 51000 |
| SW8260D | o-Xylene | 95-47-6 | µg/L | 1000 | 27 |
| SW8260D | Tetrachloroethene | 127-18-4 | µg/L | 1 | 45 |
| SW8260D | Toluene | 108-88-3 | µg/L | 600 | 253 |
| SW8260D | trans-1,2-Dichloroethene | 156-60-5 | µg/L | 100 | 970 |
| SW8260D | Trichloroethene | 79-01-6 | µg/L | 1 | 47 |
| SW8260D | Vinyl chloride | 75-01-4 | µg/L | 1 | 930 |
| SW8260D | Xylenes, Total | 1330-20-7 | µg/L | | |
| ***ECO-PAHs*** | | | | | |
| SW8270E SIM | 1,4-Dioxane | 123-91-1 | µg/L | 0.4 | -- |

Table 3. Surface Water Target Analytes, Methods, Action Levels, and Control Limits

*Site Sampling Plan for Ecological Evaluation*

*Princeton Technology Center, West Windsor Township, New Jersey*

| Method | Analyte | CAS Number | Units | Higher of PQL and Ground Water Quality Criterion[a] | Fresh Surface Water Chronic NJDEP Ecological Criterion[b] |
|---|---|---|---|---|---|
| SW8270E SIM | 2-Methylnaphthalene | 91-57-6 | µg/L | 30 | 330 |
| SW8270E SIM | Acenaphthene | 83-32-9 | µg/L | 400 | 38 |
| SW8270E SIM | Acenaphthylene | 208-96-8 | µg/L | -- | 4840 |
| SW8270E SIM | Anthracene | 120-12-7 | µg/L | 2000 | 0.035 |
| SW8270E SIM | Benzo(a)anthracene | 56-55-3 | µg/L | 0.1 | 0.025 |
| SW8270E SIM | Benzo(a)pyrene | 50-32-8 | µg/L | 0.1 | 0.014 |
| SW8270E SIM | Benzo(b)fluoroanthene | 205-99-2 | µg/L | 0.2 | 9.07 |
| SW8270E SIM | Benzo(g,h,i)perylene | 191-24-2 | µg/L | -- | 7.64 |
| SW8270E SIM | Benzo(k)fluoroanthene | 207-08-9 | µg/L | 0.5 | -- |
| SW8270E SIM | Chrysene | 218-01-9 | µg/L | 5 | -- |
| SW8270E SIM | Dibenz(a,h)anthracene | 53-70-3 | µg/L | 0.3 | -- |
| SW8270E SIM | Fluoroanthene | 206-44-0 | µg/L | 300 | 1.9 |
| SW8270E SIM | Fluorene | 86-73-7 | µg/L | 300 | 19 |
| SW8270E SIM | Indeno[1,2,3-cd]pyrene | 193-39-5 | µg/L | 0.2 | 4.31 |
| SW8270E SIM | Naphthalene | 91-20-3 | µg/L | 300 | 13 |
| SW8270E SIM | Phenanthrene | 85-01-8 | µg/L | -- | 3.6 |
| SW8270E SIM | Pyrene | 129-00-0 | µg/L | 200 | 0.3 |
| ***ECO-Metals*** | | | | | |
| SW3060A/7196A | Hexavalent Chromium | 18540-29-9 | µg/L | -- | 10 |
| SW7470A | Mercury | 7439-97-6 | µg/L | 2 | 0.77 |
| SW6020B | Aluminum | 7429-90-5 | µg/L | -- | -- |
| SW6020B | Antimony | 7440-36-0 | µg/L | 6 | 80 |
| SW6020B | Arsenic | 7440-38-2 | µg/L | 3 | 150 |
| SW6020B | Barium | 7440-39-3 | µg/L | 6000 | 220 |
| SW6020B | Beryllium | 7440-41-7 | µg/L | 1 | 3.6 |
| SW6020B | Cadmium | 7440-43-9 | µg/L | 4 | -- |
| SW6020B | Calcium | 7440-70-2 | µg/L | -- | -- |
| SW6020B | Chromium | 7440-47-3 | µg/L | -- | 42 |
| SW6020B | Cobalt | 7440-48-4 | µg/L | 100 | 24 |
| SW6020B | Copper | 7440-50-8 | µg/L | 1300 | -- |
| SW6020B | Iron | 7439-89-6 | µg/L | -- | -- |
| SW6020B | Lead | 7439-92-1 | µg/L | 5 | 5.4 |
| SW6020B | Magnesium | 7439-95-4 | µg/L | -- | -- |
| SW6020B | Manganese | 7439-96-5 | µg/L | -- | -- |
| SW6020B | Nickel | 7440-02-0 | µg/L | 100 | -- |
| SW6020B | Potassium | 7440-09-7 | µg/L | -- | -- |
| SW6020B | Selenium | 7782-49-2 | µg/L | 40 | 5 |
| EPA 200.7 | Silica | 7631-86-9 | µg/L | -- | -- |

Table 3. Surface Water Target Analytes, Methods, Action Levels, and Control Limits

*Site Sampling Plan for Ecological Evaluation*

*Princeton Technology Center, West Windsor Township, New Jersey*

| Method | Analyte | CAS Number | Units | Higher of PQL and Ground Water Quality Criterion[a] | Fresh Surface Water Chronic NJDEP Ecological Criterion[b] |
|---|---|---|---|---|---|
| SW6020B | Silver | 7440-22-4 | µg/L | 40 | **0.12** |
| SW6020B | Sodium | 7440-23-5 | µg/L | -- | -- |
| SW6020B | Thallium | 7440-28-0 | µg/L | -- | 10 |
| SW6020B | Vanadium | 7440-62-2 | µg/L | -- | 12 |
| SW6020B | Zinc | 7440-66-6 | µg/L | 2000 | -- |

Notes:

[a] New Jersey Department of Environmental Protection (NJDEP) Ground Water Quality Standards - Class IIA by Constituent. May 2021. New Jersey Administration Code 7:9C-1.4: Remediation Standards.

[b] NJDEP Ground Water Quality Standards - Class IIA by Constituent. May 2021. New Jersey Administration Code 7:9C-1.4: Remediation Standards. NJDEP Ecological Surface Water SSLs. March 2009.

**Bold = MDL and RL exceed screening criteria.**

-- = not available (no standard)

µg/L = microgram(s) per liter

CAS = Chemical Abstracts Service

Freon TF = 1,1,2-Trichloro-1,2,2-trifluoroethane

MDL = method detection limit

MTBE = methyl tert butyl ether

NJDEP = New Jersey Department of Environmental Protection

PAH = polycyclic aromatic hydrocarbon

PQL = Practical Quantitation Level as defined in N.J.A.C. 7:9C-1.4

RL = reporting limit

SIM = selected ion method

SVOC = semivolatile organic compound

VOC = volatile organic compound

# 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 |

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



# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** P3657 JACO05
**Client Name :** JACOBS Engineering Grou
**Client Contact :** Mary I. Murphy
**Invoice Name :** JACOBS Engineering Grou
**Invoice Contact :** Mary I. Murphy

**Order Date :** 8/16/2024 2:45:00 PM
**Project Name :** Former Schlumberger Site I
**Receive DateTime :** 8/16/2024 ~~12:00:00 AM~~ 12:45
**Purchase Order :**

**Project Mgr :**
**Report Type :** Level 4
**EDD Type :** CH2MHILL
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| P3657-01 | ~~717~~-J-WS-O81624 917 | Water | 08/16/2024 | 09:30 | | | | | |
| | | | | | VOCMS Group6 | | 8260-Low | | 10 Bus. Days |
| P3657-02 | TB-01-081624 | Water | 08/16/2024 | 10:55 | | | | | |
| | | | | | VOCMS Group6 | | 8260-Low | | 10 Bus. Days |

**Relinguished By :** JM
**Date / Time :** 08-16-24 1524

**Received By :** Sam
**Date / Time :** 8/16/24 15:24

**Storage Area :** VOA Refridgerator Room