



SPS Technologies Abington PA
February 28, 2025 Daily Surface Water
and Outfall Sampling Results Report

SPS Technologies

2025-03-03



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1. Executive Summary

WSP USA Inc. (WSP), on behalf of SPS Technologies Abington PA (SPS), collected five surface water samples and one outfall sample in accordance with SPS's Sampling Plan, which was submitted to the Philadelphia Water Department (PWD), the Pennsylvania Department of Environmental Protection (PADEP), and the United States Environmental Protection Agency (EPA). The samples were submitted to a Pennsylvania-certified analytical laboratory for analysis. The sample locations are shown in the attached **Figures 1** and **2** and the results of the analysis are shown below.

Surface Water Samples:

		Upstream Offsite SW Sample Location 1	Upstream Offsite SW Sample Location 2	SW Sample Location 3	High School Road Sample Location	Downstream SW Sample Location
Parameter	Units	Result	Result	Result	Result	Result
Toluene	mg/L	ND	ND	ND	ND	ND
2-Butanone (MEK)	mg/L	ND	ND	ND	ND	ND
Chromium, Trivalent	mg/L	ND	ND	ND	ND	ND
Chromium, Hexavalent	mg/L	0.003	0.004	0.003	ND	ND
Total Cyanide	mg/L	ND	ND	0.006	0.003	ND
Free Cyanide	mg/L	ND	ND	0.004	ND	0.004
Oil & Grease	mg/L	ND	ND	ND	ND	ND
Total Chromium	mg/L	0.00018	0.00026	0.00023	ND	ND
Total Nickel	mg/L	ND	0.00153	0.0031	0.0037	0.00286
Dissolved Chromium	mg/L	0.0009	0.0002	ND	ND	ND
Dissolved Nickel	mg/L	0.0008	0.0015	0.0033	0.0037	0.0023
Hardness	mg/L	225.1	278.6	232.3	217.4	197.8
pH	SU	8.46	7.88	7.25	7.05	6.68

Outfall Samples:

		Outfall 006
Parameter	Units	Result
Toluene	mg/L	ND
2-Butanone (MEK)	mg/L	ND
Chromium, Trivalent	mg/L	ND
Chromium, Hexavalent	mg/L	0.004
Total Cyanide	mg/L	0.003
Free Cyanide	mg/L	ND
Oil & Grease	mg/L	ND
Total Suspended Solids	mg/L	ND
Nitrate/Nitrite as Nitrogen	mg/L	4.3
Chemical Oxygen Demand	mg/L	21
Total Aluminum	mg/L	0.01233
Total Chromium	mg/L	ND
Total Copper	mg/L	0.00357
Total Iron	mg/L	0.1905
Total Lead	mg/L	0.00069
Total Nickel	mg/L	0.00231

		Outfall 006
Total Zinc	mg/L	0.1147
Dissolved Chromium	mg/L	0.0003
Dissolved Nickel	mg/L	0.0028
Hardness	mg/L	245.4
pH	SU	6.64

A detailed description of the sampling procedure, results, and data evaluation are included in this Report. The laboratory data validation reports and the complete laboratory analytical reports, including Quality Assurance/Quality Control (QA/QC) are attached to the Report.

2. Introduction

This Daily Surface Water and Outfall Sampling Results Report (Report) has been prepared by WSP USA Inc. (WSP) on behalf of SPS Technologies Abington PA (SPS), which operates the facility located at 301 Highland Ave, Jenkintown, Pennsylvania, 19046 (the Facility). The purpose of the Report is to provide off-site surface water and outfall sampling results collected in accordance with SPS's Sampling Plan, as prepared by WSP, which was submitted to the Philadelphia Water Department (PWD), the Pennsylvania Department of Environmental Protection (PADEP), and the United States Environmental Protection Agency (EPA) on February 21, 2025 and revised on February 25, 2025 (Sampling Plan). Refer to Sampling Plan **Figures 1** and **2** for sampling locations.

3. Site Background

SPS Technologies currently owns the Site. Operations at the Site consist of manufacturing bolts, nuts, screws, rivets, washers, furniture, and fixtures. Tookany Creek is located south of the SPS building and north of Paxson Ave.

4. Tookany Creek Offsite Investigation

4.1 Sampling Locations

The sampling locations displayed on **Figure 1** and **Figure 2** were selected based on discussions with PWD and PADEP and were identified in the Sampling Plan.

4.2 Surface Water and Outfall Sampling Field Methodology

The surface water and outfall sampling methodology was in accordance with the Sampling Plan.

The surface water and outfall field data collected for the surface water and outfall samples at each sampling location included the following:

- Water depth (for surface water samples only)
- Weather conditions
- Water velocity (if visibly flowing)
- Sample characteristics (clarity, appearance, color, odor, etc.)
- Water quality measurements (DO, pH, salinity, ORP, turbidity, conductivity, and temperature)
- Additional observations (e.g., wildlife sightings)

This data is documented on the daily surface water sampling forms attached in **Appendix A**. The in-field measurements of pH are provided on **Table 1** and **2**.

4.3 Sample Analysis

All samples were submitted to Pace Analytical in Westborough, Massachusetts (Certification No. 68-03671) and Pace Analytical in Mansfield, Massachusetts (Certification No. 68-02089), following chain-of-custody protocols.

4.4 Surface Water Sampling Daily Results

In accordance with the Sampling Plan, surface water samples were analyzed for the following parameters.

- pH (in-field measurement)
- Oil & grease
- Free cyanide
- Total cyanide
- Total nickel
- Dissolved nickel
- Total chromium
- Dissolved chromium
- Hexavalent chromium (speciated)
- Methyl ethyl ketone (MEK)
- Toluene
- Total hardness

The validated daily analytical results from surface water sampling are presented in **Table 1**.

4.5 Outfall Sampling Daily Results

In accordance with the Sampling Plan and PADEP's comments, outfall samples were analyzed for the following parameters:

- Chemical Oxygen Demand
- Total Suspended Solids
- Nitrate-Nitrite as N
- Total aluminum
- Total copper
- Total iron
- Total lead
- Toluene
- Methyl ethyl ketone (MEK)
- Hexavalent chromium (speciated)
- Total cyanide
- Free cyanide
- Oil & grease
- Total chromium
- Total nickel

- Total zinc
- Dissolved chromium
- Dissolved nickel
- Hardness

The validated daily analytical results from outfall sampling are presented in **Table 2**.

5. Daily Quality Assurance/Quality Control and Management

5.1 Field Quality Assurance/Quality Control Requirements

Field personnel performed data quality control (QC) verification of field measurements in consultation with the Pennsylvania Department of Environmental Protection Sampling and Analysis Plan (PADEP, 2023). This process included reviewing calibration records and duplicate readings to ensure data accuracy. Field measurements were documented in notebooks or field information forms. pH readings are also summarized in **Table 1**.

All hand equipment used during the sampling event was cleaned with Alconox and distilled water. Disposable sampling cups were used to collect the samples. Field personnel wore disposable nitrile sampling gloves. Sampling gloves were discarded after processing at each sample location and replaced before handling decontaminated equipment or work surfaces.

5.2 Analytical QA/QC Samples

All quality assurance/quality control (QA/QC), field duplicates (FD), and matrix spikes/matrix spike duplicates (MS/MSD) were collected in accordance with the Sampling Plan.

Trip blanks (TBs) accompanied each shipment of toluene and MEK samples at a rate of one per day. The following QA/QC samples were collected at a rate of 1 per 20 primary samples during each monitoring event: field duplicates (FD) and matrix spikes/matrix spike duplicates (MS/MSD). No field (rinsate) blanks were collected because single-use sample cups were used to collect the samples.

5.3 Data Evaluation

The reliability of the analytical data were evaluated to assess its suitability for use in the monitoring. In particular, the data's precision, accuracy, and sensitivity were evaluated based on field sampling documentation, adherence to sample holding times, and analysis of the QC samples (duplicates, spikes, and blanks). Data validation of the laboratory data was in accordance with the Sampling Plan. The data validation report is attached as **Appendix B**.

6. References

1. SPS Technologies, Sampling Plan. 25 Feb. 2025.
2. Pennsylvania Department of Environmental Protection. Water Quality Monitoring Protocols for Surface Waters. 2023.

FIGURES & TABLES & APPENDICES



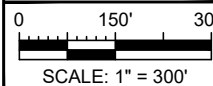
SOURCE
NEARMAP IMAGERY, JUNE 16, 2024.

LEGEND
 SW = SURFACE WATER
 ● SURFACE WATER SAMPLE LOCATION
 ● APPROXIMATE OUTFALL SAMPLE LOCATION



WSP USA Inc.
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Tel. 610-828-8100
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PROJECTION / DATUM: PA83-SF
 PREPARED BY: PJC
 CHECKED BY: KM
 REVIEWED BY: TK



CLIENT

PROJECT

**SURFACE WATER AND
OUTFALL SAMPLING
RESULTS REPORT**

TITLE

**SURFACE WATER AND
OUTFALL SAMPLE LOCATIONS**

PROJECT NO.: US0043268.2150
 REVISION NO.: 0
 DATE: FEBRUARY 2025
 FIGURE NO.:



SOURCE
 GEOMAP IMAGERY, 2025.

LEGEND
 SW = SURFACE WATER
 ● SURFACE WATER SAMPLE LOCATION



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 Blue Bell, PA 19422
 Tel. 610-828-8100
 www.wsp.com

PROJECTION / DATUM: PA83-SF
 PREPARED BY: PJC
 CHECKED BY: KM
 REVIEWED BY: TK
 SCALE: 1" = 3,000'

CLIENT

PROJECT
**SURFACE WATER AND
 OUTFALL SAMPLING
 RESULTS REPORT**

TITLE
OFF-SITE SURFACE WATER SAMPLE LOCATIONS

PROJECT NO.: US0043268.2150
 REVISION NO.: 0
 DATE: FEBRUARY 2025
 FIGURE NO.:

Table 1
Surface Water Analytical Results
Daily Surface Water Sampling Results Report
SPS Technologies
Jenkintown, Pennsylvania

Sample Location Field Sample ID Lab Sample ID Sampling Date Matrix	Upstream Offsite SW Sample Location 1			Upstream Offsite SW Sample Location 2			SW Sample Location 3			High School Road Sample Location			Downstream SW Sample Location			
	SW2_022825			SW1_022825			SW3_022825			SW4_022825			SW5_022825			
	L2511340-04			L2511340-05			L2511340-03			L2511340-02			L2511340-01			
	2/28/2025			2/28/2025			2/28/2025			2/28/2025			2/28/2025			
	Water			Water			Water			Water			Water			
Parameter	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Volatile Organic Compounds																
Toluene	mg/L	ND		0.001	ND		0.001	ND		0.001	ND		0.001	ND		0.001
2-Butanone (MEK)	mg/L	ND		0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01
General Chemistry																
Chromium, Trivalent	mg/L	ND		0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01
Chromium, Hexavalent	mg/L	0.003	J	0.01	0.004	J	0.01	0.003	J	0.01	ND		0.01	ND		0.01
Total Cyanide	mg/L	ND		0.005	ND		0.005	0.006		0.005	0.003	J	0.005	ND		0.005
Free Cyanide	mg/L	ND		0.01	ND		0.01	0.004	J	0.01	ND		0.01	0.004	J	0.01
Oil & Grease	mg/L	ND		4.4	ND		4	ND		4	ND		4.4	ND		4.4
Total Metals																
Total Chromium	mg/L	0.00018	J	0.001	0.00026	J	0.001	0.00023	J	0.001	ND		0.001	ND		0.001
Total Nickel	mg/L	ND		0.002	0.00153	J	0.002	0.0031		0.002	0.0037		0.002	0.00286		0.002
Dissolved Metals																
Dissolved Chromium	mg/L	0.0009	J	0.001	0.0002	J	0.001	ND		0.001	ND		0.001	ND		0.001
Dissolved Nickel	mg/L	0.0008	J	0.002	0.0015	J	0.002	0.0033		0.002	0.0037		0.002	0.0023		0.002
Total Hardness																
Hardness	mg/L	225.1		0.54	278.6		0.54	232.3		0.54	217.4		0.54	197.8		0.54
Field Parameters																
pH ¹	SU	8.46			7.88			7.25			7.05			6.68		

Notes:

1.) Field measurements for pH were performed by WSP field personnel prior to sample collection using a Horiba U-52. Field measurements were not validated.

Abbreviations:

mg/L: milligrams per liter
 ND: Non-Detect
 Q: Qualifier
 RL: Reporting Limit
 SU: Standard Units

Qualifiers:

J - Estimated Result



Table 2
Outfall Analytical Results
Daily Surface Water Sampling Results Report
SPS Technologies
Jenkintown, Pennsylvania

Sample Location	Outfall 006			
Field Sample ID	OF006_022825			
Lab Sample ID	L2511341-01			
Sampling Date	2/28/2025			
Matrix	Water			
Parameter	Units	Result	Q	RL
Volatile Organic Compounds				
Toluene	mg/L	ND		0.001
2-Butanone (MEK)	mg/L	ND		0.01
General Chemistry				
Chromium, Trivalent	mg/L	ND		0.01
Chromium, Hexavalent	mg/L	0.004	J	0.01
Total Cyanide	mg/L	0.003	J	0.005
Free Cyanide	mg/L	ND		0.01
Oil & Grease	mg/L	ND		4
Total Suspended Solids	mg/L	ND		5
Nitrate/Nitrite as Nitrogen	mg/L	4.3		0.1
Chemical Oxygen Demand	mg/L	21		20
Total Metals				
Total Aluminum	mg/L	0.01233		0.01
Total Chromium	mg/L	ND		0.001
Total Copper	mg/L	0.00357		0.001
Total Iron	mg/L	0.1905		0.05
Total Lead	mg/L	0.00069	J	0.001
Total Nickel	mg/L	0.00231		0.002
Total Zinc	mg/L	0.1147		0.005
Dissolved Metals				
Dissolved Chromium	mg/L	0.0003	J	0.001
Dissolved Nickel	mg/L	0.0028		0.002
Total Hardness				
Hardness	mg/L	245.4		0.54
Field Parameters				
pH ¹	SU	6.64		

Notes:

1.) Field measurements for pH were performed by WSP field personnel prior to sample collection using a Horiba U-52. Field measurements were not validated.

Abbreviations:

mg/L: milligrams per liter
 ND: Non-Detect
 Q: Qualifier
 RL: Reporting Limit
 SU: Standard Units

Qualifiers:

J - Estimated Result



APPENDIX A – DAILY SURFACE WATER AND OUTFALL SAMPLING LOGS

2/27/2025

Project Number: US0043268.2150

SURFACE WATER/OUTFALL SAMPLE FIELD INFORMATION FORM

Additional Notes: SW3 has sheen.

Site: SPS
 Location: Asington
 Project Number: US0043268.2150
 Meter/Type/Serial #: Horiba U-52 # S/N: SVSR35TG
 Meter Calibrated @: 0800 2/28/25
 Flow Meter: FH950 Meter # S/N: 182641004154
 Sampling Date/Time: SW5-022825 @ 0915, 2/28, SW4-022825 @ 1005, 2/28, SW3-022825 @ 1100, 2/28, SW2-022825 @ 1145, 2/28, SW1-022825 @ 1220, 2/28
 Sampler(s): BL, EMR
 Sampling Device: Telescope pole + Dipper w/Me
 Sample Characteristics: SW5-022825, SW4-022825, SW2-022825, SW1-022825 = clear, no odor, SW3-022825 clear, no odor, sheen.
 Analytical Parameters:

Weather Conditions: 40s°F, clear

STATION / SAMPLE	STATION DESCRIPTION (stream/lake/river)	DATE mm/dd/yy	TIME hr:min	TOTAL DEPTH inches	SAMPLE DEPTH inches	WATER TEMP Celsius	SALINITY ppt	pH SU	COND mS/cm	ORP mV	TURBIDITY NTU	DO mg/L	VELOCITY ft/sec
SW5-022825	creek	2/28/25	0915	12.5	6.25	9.19	0.3	6.68	0.707	283	0.0	6.78	0.53
Sample Characteristics:		clear, no odor											
SW4-022825	creek	2/28/25	1005	72	36	8.59	0.4	7.05	0.831	260	0.0	8.63	0.19
Sample Characteristics:		clear, no odor											
SW3-022825	creek	2/28/25	1110	21	10.5	10.69	0.3	7.25	0.676	172	0.0	8.54	0.10
Sample Characteristics:		clear, no odor, sheen											
SW2-022825	creek	2/28/25	1145	6	3	11.89	0.3	8.46	0.642	190	0.0	10.55	0.25
Sample Characteristics:		clear, no odor											
SW1-022825	creek	2/28/25	1220	11.5	5.75	11.77	0.5	7.88	0.978	190	0.0	8.06	0.49
Sample Characteristics:		clear, no odor											

[Signature]
[Signature]
 Page 1 of 1

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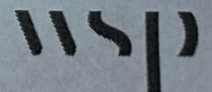
SURFACE WATER/OUTFALL SAMPLE FIELD INFORMATION FORM

Site: SPS
 Location: JENKINTOWN, PA
 Project Number: US0043268.2150
 Meter/Type/Serial #: Horiba U-52 # S/N: 227785
 Meter Calibrated @: 08:30
 Flow Meter: FH950 Meter # S/N:
 Sampling Date/Time: 02/28/2025
 Sampler(s): CBS
 Sampling Device:
 Sample Characteristics:
 Analytical Parameters:

Additional Notes:

Weather Conditions: PARTLY CLOUDY, WINDY, 40s °F.

STATION / SAMPLE	STATION DESCRIPTION (stream/lake/river)	DATE	TIME	TOTAL DEPTH	SAMPLE DEPTH	WATER TEMP	SALINITY	pH	COND	ORP	TURBIDITY	DO	VELOCITY
		mm/dd/yy	hr:min	inches		Celsius	ppt	SU	mS/cm	mV	NTU	mg/L	ft/sec
DF006_022825	OUTFALL	02/28/25	10:10	-	-	11.21	0.32	6.64	0.669	112	0.0	6.04	~2.7
Sample Characteristics:													
Sample Characteristics:													
Sample Characteristics:													
Sample Characteristics:													
Sample Characteristics:													



APPENDIX B – DATA VALIDATION REPORT

QA LEVEL 2A - DATA VERIFICATION/DATA VALIDATION CHECKLIST

Project Name: SPS Technologies

Project Number/Phase/Task: US0043268.2150-US-SPS Client Support. Task 01

Reviewing Company: WSP USA

Project Manager: Tovah Karl

Data Evaluator: Julia Campbell

Data Evaluation Date: March 1, 2025

Checked by: Julie Lehrman

Review Date: March 3, 2025

Laboratory: Pace Analytical LLC

Lab SDG #: L2511340

Matrix: Aqueous Soil Sediment Waste Air Other:

Analytical Methods: See Table B-1

Sample Information: See Table B-1

Work Plan or QAPP: SPS Technologies Abington PA Surface Water and Outfall Sampling Plan (WSP, 2025)

Data Validation Guidance:

USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (Nov. 2020)

USEPA NFG for Inorganic Superfund Methods Data Review (Nov. 2020)

COC and Sample Receipt	YES	NO	NA	COMMENT
a) COC complete and correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		See Note 1
b) COC documents release of custody (signed and dated)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Field QC types provided (note types)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TB, See Table B-1
d) Did the cooler contents match the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
f) Were cooler temperatures within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Data Package Information	YES	NO	NA	COMMENT
a) Laboratory name and location documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) All samples on COC reported in data package?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Requested analytical methods used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d) Requested sample preparation methods used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e) Requested analyte list reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
f) Requested units reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
g) Did the laboratory define the qualifiers used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
h) Data package contains all information necessary to complete the data quality review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Analytical Assessment	YES	NO	NA	COMMENT
a) Solid samples reported on a dry-weight basis?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Were solid samples percent moisture criteria acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) Were sample dilutions noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Analytical Assessment	YES	NO	NA	COMMENT
d) Were detected concentrations less than the QL qualified by the laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e) Were detected concentrations above the calibration range reported by the laboratory?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
f) Did the laboratory satisfy the requested sensitivity requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Laboratory Case Narrative	YES	NO	NA	COMMENT
a) Do the laboratory narrative or laboratory qualifiers indicate deficiencies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b) Were all deficiencies noted in the laboratory qualifiers or narrative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample Preservation and Holding Time	YES	NO	NA	COMMENT
a) Were samples properly preserved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) Were holding times met for sample preparation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Were holding times met for sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Blanks	YES	NO	NA	COMMENTS
a) Were blanks analyzed at the appropriate frequency?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) Were any analytes detected in the associated preparation/method blank?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
c) Were any analytes detected in the associated trip blanks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Were any analytes detected in the associated field or equipment/rinsate blanks?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e) Were any analytes detected in the associated storage blanks?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Surrogates or Deuterated Monitoring Compounds	YES	NO	NA	COMMENTS
a) Were the correct surrogate compounds added to each sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b) Were surrogate recoveries within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) If not, were samples analyzed at dilution factors of 20x or greater?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
LCS/LCSD	YES	NO	NA	COMMENTS
a) Were LCS/LCSD reported at the appropriate frequency?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) Were proper analytes included in the LCS/LCSD?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Were LCS/LCSD recoveries within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d) Were RPD values within control limits (if LCSD was analyzed)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
MS/MSDs	YES	NO	NA	COMMENTS
a) Were project-specific MS (and MSD) reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		SW5_022825 (total metals, dissolved metals, & free cyanide) SW4_022825 (Hex Chrom, oil & grease)
b) Were proper analytes reported in the MS/MSD?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

MS/MSDs	YES	NO	NA	COMMENTS
c) Were project-specific MS/MSD recoveries within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d) If not, were sample concentrations greater than 4x the spiking concentration?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e) Was the RPD or absolute difference within control limits (if project-specific MSD analyzed)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f) Were project-specific post-digestion spikes analyzed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g) Were project-specific post-digestion spike recoveries within control limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Duplicates	YES	NO	NA	COMMENTS
a) Were project-specific laboratory duplicates reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SW5_022825 (total metals, dissolved metals, free cyanide, oil & grease) SW4_022825 (Hex Chrom)
b) Was laboratory duplicate RPD or absolute difference criteria acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Were field duplicates reported?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Was field duplicate RPD or absolute difference criteria acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

ICP Serial Dilution (SD)	YES	NO	NA	COMMENTS
a) Was project-specific ICP SD data provided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Were project-specific ICP SD within acceptable criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Overall Evaluation	YES	NO	NA	COMMENTS
a) Were there any other technical problems not previously addressed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
b) Were data acceptable and usable, except where noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Comments/Notes:

The reliability of the analytical data was evaluated to assess its suitability for use. In particular, a Stage 2A data validation was performed, which evaluates the data's precision, accuracy, and sensitivity based on adherence to sample holding times and analysis of the QC samples (duplicates, spikes, and blanks). Where appropriate, data qualifiers were applied following USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (Nov. 2020) and USEPA NFG for Inorganic Superfund Methods Data Review (Nov. 2020), as applicable to the analytical methods used by the laboratory. Based on the data review, the data was deemed suitable for project decision making as reported by the laboratory. Further detail can be found in the comments below and in Table B-2.

1. The COC submitted with the samples requested total zinc analysis, however this analyte was not required and cancelled by the client. A revised chain of custody was provided to the laboratory, and the final data package does not include total zinc analysis for the surface water samples. No further action is required.

Data Qualification: See Table B-2

Table B-1
Sample Collection and Analysis Summary
SPS Technologies
Jenkintown, PA

Laboratory Job	Field Identification	Matrix	Lab Identification	QC Samples	Collection Date	Analyses/Parameters								
						MEK and Toluene	Oil and Grease	Total Metals	Dissolved Metals	Total Hardness	Free Cyanide	Total Cyanide	Trivalent Chromium	Hexavalent Chromium
						E624.1	E1664 B	200.8	200.8	200.8	SM 4500C	SM 4500C	SM 3500	SM 3500C
L2511340	SW5_022825	WS	L2511340-01	--	2/28/2025	X	X	X	X	X	X	X	X	X
L2511340	SW4_022825	WS	L2511340-02	--	2/28/2025	X	X	X	X	X	X	X	X	X
L2511340	SW3_022825	WS	L2511340-03	--	2/28/2025	X	X	X	X	X	X	X	X	X
L2511340	SW2_022825	WS	L2511340-04	--	2/28/2025	X	X	X	X	X	X	X	X	X
L2511340	SW1_022825	WS	L2511340-05	--	2/28/2025	X	X	X	X	X	X	X	X	X
L2511340	TBSW_022825	WQ	L2511340-06	TB	2/28/2025	X	--	--	--	--	--	--	--	--

Notes:

- 1) Metal analyses were performed by Pace Analytical Mansfield Lab, all other parameters were performed at Pace Analytical Westborough Lab.
- 2) Total Metals include: chromium and nickel
- 3) Dissolved Metals include: chromium and nickel

Abbreviations:

- MEK: methyl ethyl ketone (2-butanone)
- MS/MSD: Matrix Spike/Matrix Spike Duplicate
- QC: Quality Control
- SM: Standard Methods
- TB: Trip Blank
- WS: Surface Water
- WQ: Quality Control Water

**Table B-2
Qualifier Summary Table
SPS Technologies
Jenkintown, PA**

<i>Laboratory Job</i>	<i>Sample Name</i>	<i>Analyte</i>	<i>New Result</i>	<i>New MDL</i>	<i>New RL</i>	<i>Qualifier</i>	<i>Reason</i>
L2511340	No Qualifiers Required						
L2511340	All samples	--	--		--	--	Laboratory applied U-qualifiers indicating non-detect results and J-qualifiers indicating results below the reporting limit are retained unless other qualifications are indicated in this table. All other laboratory qualifiers are removed.

Abbreviations:

MDL: Method Detection Limit
 RL: Reporting Limit
 SDG: Sample Delivery Group

Qualifiers:

QA LEVEL 2A - DATA VERIFICATION/DATA VALIDATION CHECKLIST

Project Name: SPS Technologies

Project Number/Phase/Task: US0043268.2150-US-SPS Client Support. Task 01

Reviewing Company: WSP USA

Project Manager: Tovah Karl

Data Evaluator: Julia Campbell

Data Evaluation Date: March 1, 2025

Checked by: Julie Lehrman

Review Date: March 3, 2025

Laboratory: Pace Analytical LLC

Lab SDG #: L2511341

Matrix: Aqueous Soil Sediment Waste Air Other:

Analytical Methods: See Table B-1

Sample Information: See Table B-1

Work Plan or QAPP: SPS Technologies Abington PA Surface Water and Outfall Sampling Plan (WSP, 2025)

Data Validation Guidance:

USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (Nov. 2020)

USEPA NFG for Inorganic Superfund Methods Data Review (Nov. 2020)

COC and Sample Receipt	YES	NO	NA	COMMENT
a) COC complete and correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) COC documents release of custody (signed and dated)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Field QC types provided (note types)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TB; See Table B-1
d) Did the cooler contents match the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
f) Were cooler temperatures within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Data Package Information	YES	NO	NA	COMMENT
a) Laboratory name and location documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) All samples on COC reported in data package?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Requested analytical methods used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d) Requested sample preparation methods used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e) Requested analyte list reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
f) Requested units reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
g) Did the laboratory define the qualifiers used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
h) Data package contains all information necessary to complete the data quality review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Analytical Assessment	YES	NO	NA	COMMENT
a) Solid samples reported on a dry-weight basis?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Were solid samples percent moisture criteria acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) Were sample dilutions noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Analytical Assessment	YES	NO	NA	COMMENT
d) Were detected concentrations less than the QL qualified by the laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e) Were detected concentrations above the calibration range reported by the laboratory?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
f) Did the laboratory satisfy the requested sensitivity requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Laboratory Case Narrative	YES	NO	NA	COMMENT
a) Do the laboratory narrative or laboratory qualifiers indicate deficiencies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b) Were all deficiencies noted in the laboratory qualifiers or narrative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample Preservation and Holding Time	YES	NO	NA	COMMENT
a) Were samples properly preserved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) Were holding times met for sample preparation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Were holding times met for sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Blanks	YES	NO	NA	COMMENTS
a) Were blanks analyzed at the appropriate frequency?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) Were any analytes detected in the associated preparation/method blank?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
c) Were any analytes detected in the associated trip blanks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Were any analytes detected in the associated field or equipment/rinsate blanks?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e) Were any analytes detected in the associated storage blanks?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Surrogates or Deuterated Monitoring Compounds	YES	NO	NA	COMMENTS
a) Were the correct surrogate compounds added to each sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b) Were surrogate recoveries within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) If not, were samples analyzed at dilution factors of 20x or greater?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
LCS/LCSD	YES	NO	NA	COMMENTS
a) Were LCS/LCSD reported at the appropriate frequency?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b) Were proper analytes included in the LCS/LCSD?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c) Were LCS/LCSD recoveries within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d) Were RPD values within control limits (if LCSD was analyzed)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
MS/MSDs	YES	NO	NA	COMMENTS
a) Were project-specific MS (and MSD) reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		OF006_022825 (COD only)
b) Were proper analytes reported in the MS/MSD?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

MS/MSDs	YES	NO	NA	COMMENTS
c) Were project-specific MS/MSD recoveries within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d) If not, were sample concentrations greater than 4x the spiking concentration?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e) Was the RPD or absolute difference within control limits (if project-specific MSD analyzed)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f) Were project-specific post-digestion spikes analyzed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g) Were project-specific post-digestion spike recoveries within control limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Duplicates	YES	NO	NA	COMMENTS
a) Were project-specific laboratory duplicates reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OF006_022825 (COD only)
b) Was laboratory duplicate RPD or absolute difference criteria acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Were field duplicates reported?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Was field duplicate RPD or absolute difference criteria acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
ICP Serial Dilution (SD)	YES	NO	NA	COMMENTS
a) Was project-specific ICP SD data provided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Were project-specific ICP SD within acceptable criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Overall Evaluation	YES	NO	NA	COMMENTS
a) Were there any other technical problems not previously addressed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
b) Were data acceptable and usable, except where noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Comments/Notes:

The reliability of the analytical data was evaluated to assess its suitability for use. In particular, a Stage 2A data validation was performed, which evaluates the data's precision, accuracy, and sensitivity based on adherence to sample holding times and analysis of the QC samples (duplicates, spikes, and blanks). Where appropriate, data qualifiers were applied following USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (Nov. 2020) and USEPA NFG for Inorganic Superfund Methods Data Review (Nov. 2020), as applicable to the analytical methods used by the laboratory. Based on the data review, the data was deemed suitable for project decision making as reported by the laboratory.

Data Qualification: See Table B-2

**Table B-1
Sample Collection and Analysis Summary
SPS Technologies
Jenkintown, PA**

Laboratory Job	Field Identification	Matrix	Lab Identification	QC Samples	Collection Date	Analyses/Parameters												
						MEK and Toluene	Chemical Oxygen Demand	Total Suspended Solids	Nitrate-Nitrite as N	Oil and Grease	Total Metals	Dissolved Metals	Total Hardness	Free Cyanide	Total Cyanide	Trivalent Chromium	Hexavalent Chromium	
						E624.1	E410.4	SM 2540D	E353.2	E1664 B	200.8	200.8	200.8	SM 4500C	SM 4500C	SM 3500	SM 3500C	
L2511341	OF006_022825	WS	L2511341-01	MS/MSD	2/28/2025	X	X	X	X	X	X	X	X	X	X	X	X	
L2511341	TBOF_022825	WQ	L2511341-02	TB	2/28/2025	X	--	--	--	--	--	--	--	--	--	--	--	

Notes:

- 1) Metal analyses were performed by Pace Analytical Mansfield Lab, all other parameters were performed at Pace Analytical Westborough Lab.
- 2) Total Metals include: aluminum, copper, chromium, iron, nickel, and zinc
- 3) Dissolved Metals include: chromium and nickel

Abbreviations:

MEK: methyl ethyl ketone (2-butanone)
 MS/MSD: Matrix Spike/Matrix Spike Duplicate
 QC: Quality Control
 SM: Standard Methods
 TB: Trip Blank
 WS: Surface Water
 WQ: Quality Control Water

**Table B-2
Qualifier Summary Table
SPS Technologies
Jenkintown, PA**

<i>Laboratory Job</i>	<i>Sample Name</i>	<i>Analyte</i>	<i>New Result</i>	<i>New MDL</i>	<i>New RL</i>	<i>Qualifier</i>	<i>Reason</i>
L2511341	No Qualifiers Required						
L2511341	All samples	--	--		--	--	Laboratory applied U-qualifiers indicating non-detect results and J-qualifiers indicating results below the reporting limit are retained unless other qualifications are indicated in this table. All other laboratory qualifiers are removed.

Abbreviations:

MDL: Method Detection Limit
 MS/MSD: Matrix Spike/Matrix Spike Duplicate
 RL: Reporting Limit
 SDG: Sample Delivery Group

Qualifiers:

APPENDIX C – LABORATORY ANALYTICAL REPORTS



ANALYTICAL REPORT

Lab Number:	L2511340
Client:	WSP USA Inc. 10 Lake Center Drive Suite 205 Marlton, NJ 08053
ATTN:	Julie Lehrman
Phone:	(856) 793-2005
Project Name:	SPS TECHNOLOGIES
Project Number:	US0043268.2150
Report Date:	03/02/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2511340-01	SW5_022825	WATER	JENKINTOWN, PA	02/28/25 09:15	02/28/25
L2511340-02	SW4_022825	WATER	JENKINTOWN, PA	02/28/25 10:05	02/28/25
L2511340-03	SW3_022825	WATER	JENKINTOWN, PA	02/28/25 11:10	02/28/25
L2511340-04	SW2_022825	WATER	JENKINTOWN, PA	02/28/25 11:45	02/28/25
L2511340-05	SW1_022825	WATER	JENKINTOWN, PA	02/28/25 12:20	02/28/25
L2511340-06	TBSW_022825	WATER	JENKINTOWN, PA	02/28/25 00:00	02/28/25

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

Case Narrative (continued)

Report Submission

March 02, 2025: This final report includes the results of all requested analyses.

March 01, 2025: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Melissa Sturgis

Title: Technical Director/Representative

Date: 03/02/25

ORGANICS

VOLATILES

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511340-01
 Client ID: SW5_022825
 Sample Location: JENKINTOWN, PA

Date Collected: 02/28/25 09:15
 Date Received: 02/28/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 03/01/25 12:13
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab						
--	--	--	--	--	--	--

Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	89		60-140
Fluorobenzene	92		60-140
4-Bromofluorobenzene	105		60-140

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511340-02
 Client ID: SW4_022825
 Sample Location: JENKINTOWN, PA

Date Collected: 02/28/25 10:05
 Date Received: 02/28/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 03/01/25 11:39
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	93		60-140
Fluorobenzene	90		60-140
4-Bromofluorobenzene	105		60-140

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511340-03
 Client ID: SW3_022825
 Sample Location: JENKINTOWN, PA

Date Collected: 02/28/25 11:10
 Date Received: 02/28/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 03/01/25 11:05
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
-----------	------------	-----------	---------------------

Pentafluorobenzene	91		60-140
--------------------	----	--	--------

Fluorobenzene	88		60-140
---------------	----	--	--------

4-Bromofluorobenzene	106		60-140
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Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511340-04
 Client ID: SW2_022825
 Sample Location: JENKINTOWN, PA

Date Collected: 02/28/25 11:45
 Date Received: 02/28/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 03/01/25 10:31
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
-----------	------------	-----------	---------------------

Pentafluorobenzene	88		60-140
--------------------	----	--	--------

Fluorobenzene	88		60-140
---------------	----	--	--------

4-Bromofluorobenzene	105		60-140
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Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511340-05
 Client ID: SW1_022825
 Sample Location: JENKINTOWN, PA

Date Collected: 02/28/25 12:20
 Date Received: 02/28/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 03/01/25 09:57
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab						
--	--	--	--	--	--	--

Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	94		60-140
Fluorobenzene	89		60-140
4-Bromofluorobenzene	105		60-140

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511340-06
 Client ID: TBSW_022825
 Sample Location: JENKINTOWN, PA

Date Collected: 02/28/25 00:00
 Date Received: 02/28/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 03/01/25 09:23
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	97		60-140
Fluorobenzene	93		60-140
4-Bromofluorobenzene	104		60-140

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 03/01/25 08:15
Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG2035540-4					
Toluene	ND		mg/l	0.0010	0.00031
2-Butanone	ND		mg/l	0.010	0.0010

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	100		60-140
Fluorobenzene	94		60-140
4-Bromofluorobenzene	100		60-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG2035540-3								
Toluene	100		-		70-130	-		41
2-Butanone	76		-		60-140	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	102				60-140
Fluorobenzene	100				60-140
4-Bromofluorobenzene	103				60-140



METALS



Project Name: SPS TECHNOLOGIES**Lab Number:** L2511340**Project Number:** US0043268.2150**Report Date:** 03/02/25**SAMPLE RESULTS**

Lab ID: L2511340-01

Date Collected: 02/28/25 09:15

Client ID: SW5_022825

Date Received: 02/28/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/01/25 07:44	03/01/25 11:49	EPA 3005A	3,200.8	MRC
Nickel, Total	0.00286		mg/l	0.00200	0.00055	1	03/01/25 07:44	03/01/25 11:49	EPA 3005A	3,200.8	MRC
Total Hardness (by calculation) - Mansfield Lab											
Hardness	197.8		mg/l	0.5400	NA	1	03/01/25 07:44	03/01/25 11:49	EPA 3005A	3,200.8	MRC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/01/25 11:49	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/02/25 06:42	03/02/25 18:03	EPA 3005A	3,200.8	TAA
Nickel, Dissolved	0.0023		mg/l	0.0020	0.0006	1	03/02/25 06:42	03/02/25 18:03	EPA 3005A	3,200.8	TAA



Project Name: SPS TECHNOLOGIES**Lab Number:** L2511340**Project Number:** US0043268.2150**Report Date:** 03/02/25**SAMPLE RESULTS**

Lab ID: L2511340-02

Date Collected: 02/28/25 10:05

Client ID: SW4_022825

Date Received: 02/28/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/01/25 07:44	03/01/25 12:03	EPA 3005A	3,200.8	MRC
Nickel, Total	0.00370		mg/l	0.00200	0.00055	1	03/01/25 07:44	03/01/25 12:03	EPA 3005A	3,200.8	MRC
Total Hardness (by calculation) - Mansfield Lab											
Hardness	217.4		mg/l	0.5400	NA	1	03/01/25 07:44	03/01/25 12:03	EPA 3005A	3,200.8	MRC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/01/25 12:03	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/02/25 06:42	03/02/25 18:16	EPA 3005A	3,200.8	TAA
Nickel, Dissolved	0.0037		mg/l	0.0020	0.0006	1	03/02/25 06:42	03/02/25 18:16	EPA 3005A	3,200.8	TAA



Project Name: SPS TECHNOLOGIES**Lab Number:** L2511340**Project Number:** US0043268.2150**Report Date:** 03/02/25**SAMPLE RESULTS**

Lab ID: L2511340-03

Date Collected: 02/28/25 11:10

Client ID: SW3_022825

Date Received: 02/28/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	0.00023	J	mg/l	0.00100	0.00017	1	03/01/25 07:44	03/01/25 12:08	EPA 3005A	3,200.8	MRC
Nickel, Total	0.00310		mg/l	0.00200	0.00055	1	03/01/25 07:44	03/01/25 12:08	EPA 3005A	3,200.8	MRC
Total Hardness (by calculation) - Mansfield Lab											
Hardness	232.3		mg/l	0.5400	NA	1	03/01/25 07:44	03/01/25 12:08	EPA 3005A	3,200.8	MRC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/01/25 12:08	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/02/25 06:42	03/02/25 18:20	EPA 3005A	3,200.8	TAA
Nickel, Dissolved	0.0033		mg/l	0.0020	0.0006	1	03/02/25 06:42	03/02/25 18:20	EPA 3005A	3,200.8	TAA



Project Name: SPS TECHNOLOGIES**Lab Number:** L2511340**Project Number:** US0043268.2150**Report Date:** 03/02/25**SAMPLE RESULTS**

Lab ID: L2511340-04

Date Collected: 02/28/25 11:45

Client ID: SW2_022825

Date Received: 02/28/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	0.00018	J	mg/l	0.00100	0.00017	1	03/01/25 07:44	03/01/25 12:13	EPA 3005A	3,200.8	MRC
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/01/25 07:44	03/01/25 12:13	EPA 3005A	3,200.8	MRC
Total Hardness (by calculation) - Mansfield Lab											
Hardness	225.1		mg/l	0.5400	NA	1	03/01/25 07:44	03/01/25 12:13	EPA 3005A	3,200.8	MRC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/01/25 12:13	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0009	J	mg/l	0.0010	0.0002	1	03/02/25 06:42	03/02/25 18:25	EPA 3005A	3,200.8	TAA
Nickel, Dissolved	0.0008	J	mg/l	0.0020	0.0006	1	03/02/25 06:42	03/02/25 18:25	EPA 3005A	3,200.8	TAA



Project Name: SPS TECHNOLOGIES**Lab Number:** L2511340**Project Number:** US0043268.2150**Report Date:** 03/02/25**SAMPLE RESULTS**

Lab ID: L2511340-05

Date Collected: 02/28/25 12:20

Client ID: SW1_022825

Date Received: 02/28/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	0.00026	J	mg/l	0.00100	0.00017	1	03/01/25 07:44	03/01/25 12:18	EPA 3005A	3,200.8	MRC
Nickel, Total	0.00153	J	mg/l	0.00200	0.00055	1	03/01/25 07:44	03/01/25 12:18	EPA 3005A	3,200.8	MRC
Total Hardness (by calculation) - Mansfield Lab											
Hardness	278.6		mg/l	0.5400	NA	1	03/01/25 07:44	03/01/25 12:18	EPA 3005A	3,200.8	MRC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/01/25 12:18	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	03/02/25 06:42	03/02/25 18:39	EPA 3005A	3,200.8	TAA
Nickel, Dissolved	0.0015	J	mg/l	0.0020	0.0006	1	03/02/25 06:42	03/02/25 18:39	EPA 3005A	3,200.8	TAA



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2035456-1									
Chromium, Total	ND	mg/l	0.00100	0.00017	1	03/01/25 07:44	03/01/25 11:40	3,200.8	MRC
Nickel, Total	ND	mg/l	0.00200	0.00055	1	03/01/25 07:44	03/01/25 11:40	3,200.8	MRC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab for sample(s): 01-05 Batch: WG2035456-1									
Hardness	ND	mg/l	0.5400	NA	1	03/01/25 07:44	03/01/25 11:40	3,200.8	MRC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2035641-1									
Chromium, Dissolved	ND	mg/l	0.0010	0.0002	1	03/02/25 06:42	03/02/25 17:55	3,200.8	TAA
Nickel, Dissolved	ND	mg/l	0.0020	0.0006	1	03/02/25 06:42	03/02/25 17:55	3,200.8	TAA

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2511340

Report Date: 03/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2035456-2								
Chromium, Total	97		-		85-115	-		
Nickel, Total	102		-		85-115	-		
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-05 Batch: WG2035456-2								
Hardness	98		-		85-115	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2035641-2								
Chromium, Dissolved	113		-		85-115	-		
Nickel, Dissolved	102		-		85-115	-		

Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Lab Number: L2511340

Project Number: US0043268.2150

Report Date: 03/02/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2035456-3 QC Sample: L2511340-01 Client ID: SW5_022825												
Chromium, Total	ND	0.2	0.1924	96		-	-		70-130	-		20
Nickel, Total	0.00286	0.5	0.5111	102		-	-		70-130	-		20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2035456-3 QC Sample: L2511340-01 Client ID: SW5_022825												
Hardness	197.8	66.2	257.2	90		-	-		70-130	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2035641-3 QC Sample: L2511340-01 Client ID: SW5_022825												
Chromium, Dissolved	ND	0.2	0.2428	121		-	-		70-130	-		20
Nickel, Dissolved	0.0023	0.5	0.5340	106		-	-		70-130	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2511340

Report Date: 03/02/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2035456-4 QC Sample: L2511340-01 Client ID: SW5_022825						
Chromium, Total	ND	ND	mg/l	NC		20
Nickel, Total	0.00286	0.00273	mg/l	5		20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2035456-4 QC Sample: L2511340-01 Client ID: SW5_022825						
Hardness	197.8	200.6	mg/l	1		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2035641-4 QC Sample: L2511340-01 Client ID: SW5_022825						
Chromium, Dissolved	ND	0.0002J	mg/l	NC		20
Nickel, Dissolved	0.0023	0.0026	mg/l	11		20

INORGANICS & MISCELLANEOUS

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511340-01
Client ID: SW5_022825
Sample Location: JENKINTOWN, PA

Date Collected: 02/28/25 09:15
Date Received: 02/28/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/01/25 08:00	03/01/25 12:09	121,4500CN-CE	JER
Cyanide, Free	0.004	J	mg/l	0.010	0.003	1	-	03/01/25 06:19	121,4500CN-E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.4	4.4	1.1	03/01/25 09:12	03/01/25 13:07	140,1664B	IYM
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/01/25 06:52	03/01/25 07:19	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511340-02
Client ID: SW4_022825
Sample Location: JENKINTOWN, PA

Date Collected: 02/28/25 10:05
Date Received: 02/28/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	03/01/25 08:00	03/01/25 12:10	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/01/25 06:19	121,4500CN-E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.4	4.4	1.1	03/01/25 09:12	03/01/25 13:08	140,1664B	IYM
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/01/25 06:52	03/01/25 07:20	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511340-03
Client ID: SW3_022825
Sample Location: JENKINTOWN, PA

Date Collected: 02/28/25 11:10
Date Received: 02/28/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.006		mg/l	0.005	0.001	1	03/01/25 08:00	03/01/25 12:11	121,4500CN-CE	JER
Cyanide, Free	0.004	J	mg/l	0.010	0.003	1	-	03/01/25 06:19	121,4500CN-E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/01/25 09:12	03/01/25 13:09	140,1664B	IYM
Chromium, Hexavalent	0.003	J	mg/l	0.010	0.003	1	03/01/25 06:52	03/01/25 07:23	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511340-04
Client ID: SW2_022825
Sample Location: JENKINTOWN, PA

Date Collected: 02/28/25 11:45
Date Received: 02/28/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/01/25 08:00	03/01/25 12:12	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/01/25 06:19	121,4500CN-E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.4	4.4	1.1	03/01/25 09:12	03/01/25 13:11	140,1664B	IYM
Chromium, Hexavalent	0.003	J	mg/l	0.010	0.003	1	03/01/25 06:52	03/01/25 07:24	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES

Lab Number: L2511340

Project Number: US0043268.2150

Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511340-05

Date Collected: 02/28/25 12:20

Client ID: SW1_022825

Date Received: 02/28/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/01/25 08:00	03/01/25 12:13	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/01/25 06:19	121,4500CN-E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/01/25 09:12	03/01/25 13:13	140,1664B	IYM
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	03/01/25 06:52	03/01/25 07:25	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511340
Report Date: 03/02/25

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2035451-1									
Cyanide, Free	ND	mg/l	0.010	0.003	1	-	03/01/25 06:19	121,4500CN-E(M)	KAF
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2035455-1									
Chromium, Hexavalent	ND	mg/l	0.010	0.003	1	03/01/25 06:52	03/01/25 07:17	121,3500CR-B	DMO
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2035466-1									
Cyanide, Total	ND	mg/l	0.005	0.001	1	03/01/25 08:00	03/01/25 11:24	121,4500CN-CE	JER
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2035500-1									
Oil & Grease, Hem-Grav	ND	mg/l	4.0	4.0	1	03/01/25 09:12	03/01/25 12:22	140,1664B	IYM



Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2511340

Report Date: 03/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2035451-2								
Cyanide, Free	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2035455-2								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2035466-2								
Cyanide, Total	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2035500-2								
Oil & Grease, Hem-Grav	84		-		78-114	-		18

Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Lab Number: L2511340

Project Number: US0043268.2150

Report Date: 03/02/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2035451-4 QC Sample: L2511340-01 Client ID: SW5_022825												
Cyanide, Free	0.004J	0.25	0.246	98	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2035455-4 QC Sample: L2511340-02 Client ID: SW4_022825												
Chromium, Hexavalent	ND	0.1	0.096	96	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2035466-3 QC Sample: L2510314-02 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.208	104	-	-	-	-	90-110	-	-	30
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2035500-4 QC Sample: L2511340-02 Client ID: SW4_022825												
Oil & Grease, Hem-Grav	ND	44	40	92	-	-	-	-	78-114	-	-	18

Lab Duplicate Analysis

Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2511340

Report Date: 03/02/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2035451-3 QC Sample: L2511340-01 Client ID: SW5_022825						
Cyanide, Free	0.004J	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2035455-3 QC Sample: L2511340-02 Client ID: SW4_022825						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2035466-4 QC Sample: L2510314-02 Client ID: DUP Sample						
Cyanide, Total	ND	ND	mg/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2035500-3 QC Sample: L2511340-01 Client ID: SW5_022825						
Oil & Grease, Hem-Grav	ND	ND	mg/l	NC		18

Project Name: SPS TECHNOLOGIES**Lab Number:** L2511340**Project Number:** US0043268.2150**Report Date:** 03/02/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Present/Intact
B	Present/Intact
C	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2511340-01A	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-01B	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-01C	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-01D	Plastic 250ml unpreserved	B	7	7	3.4	Y	Present/Intact		-
L2511340-01E	Plastic 250ml HNO ₃ preserved	B	<2	<2	3.4	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR-2008T(180)
L2511340-01F	Plastic 250ml NaOH preserved	B	>12	>12	3.4	Y	Present/Intact		TCN-4500(14)
L2511340-01G	Plastic 500ml unpreserved	B	7	7	3.4	Y	Present/Intact		HEXCR-3500(1),FCN(1)
L2511340-01H	Amber 1L HCl preserved	B	NA		3.4	Y	Present/Intact		OG-1664(28)
L2511340-01J	Amber 1L HCl preserved	B	NA		3.4	Y	Present/Intact		OG-1664(28)
L2511340-01X	Plastic 120ml HNO ₃ preserved Filtrates	B	NA	NA	3.4	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
L2511340-02A	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-02B	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-02C	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-02D	Plastic 250ml unpreserved	B	7	7	3.4	Y	Present/Intact		-
L2511340-02E	Plastic 250ml HNO ₃ preserved	B	<2	<2	3.4	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR-2008T(180)
L2511340-02F	Plastic 250ml NaOH preserved	B	>12	>12	3.4	Y	Present/Intact		TCN-4500(14)
L2511340-02G	Plastic 500ml unpreserved	B	7	7	3.4	Y	Present/Intact		HEXCR-3500(1),FCN(1)
L2511340-02H	Amber 1L HCl preserved	B	NA		3.4	Y	Present/Intact		OG-1664(28)
L2511340-02J	Amber 1L HCl preserved	B	NA		3.4	Y	Present/Intact		OG-1664(28)
L2511340-02X	Plastic 120ml HNO ₃ preserved Filtrates	B	NA	NA	3.4	Y	Present/Intact		CR-2008S(180),NI-2008S(180)

Project Name: SPS TECHNOLOGIES**Lab Number:** L2511340**Project Number:** US0043268.2150**Report Date:** 03/02/25**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2511340-03A	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-03B	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-03C	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-03D	Plastic 250ml unpreserved	B	7	7	3.4	Y	Present/Intact		-
L2511340-03E	Plastic 250ml HNO ₃ preserved	B	<2	<2	3.4	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR-2008T(180)
L2511340-03F	Plastic 250ml NaOH preserved	B	>12	>12	3.4	Y	Present/Intact		TCN-4500(14)
L2511340-03G	Plastic 500ml unpreserved	B	7	7	3.4	Y	Present/Intact		HEXCR-3500(1),FCN(1)
L2511340-03H	Amber 1L HCl preserved	B	NA		3.4	Y	Present/Intact		OG-1664(28)
L2511340-03J	Amber 1L HCl preserved	B	NA		3.4	Y	Present/Intact		OG-1664(28)
L2511340-03X	Plastic 120ml HNO ₃ preserved Filtrates	A	NA	NA	2.0	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
L2511340-04A	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-04B	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-04C	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-04D	Plastic 250ml unpreserved	C	7	7	4.8	Y	Present/Intact		-
L2511340-04E	Plastic 250ml HNO ₃ preserved	C	<2	<2	4.8	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR-2008T(180)
L2511340-04F	Plastic 250ml NaOH preserved	C	>12	>12	4.8	Y	Present/Intact		TCN-4500(14)
L2511340-04G	Plastic 500ml unpreserved	C	7	7	4.8	Y	Present/Intact		HEXCR-3500(1),FCN(1)
L2511340-04H	Amber 1L HCl preserved	C	NA		4.8	Y	Present/Intact		OG-1664(28)
L2511340-04J	Amber 1L HCl preserved	C	NA		4.8	Y	Present/Intact		OG-1664(28)
L2511340-04X	Plastic 120ml HNO ₃ preserved Filtrates	A	NA	NA	2.0	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
L2511340-05A	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-05B	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-05C	Vial Na ₂ S ₂ O ₃ preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-05D	Plastic 250ml unpreserved	C	7	7	4.8	Y	Present/Intact		-
L2511340-05E	Plastic 250ml HNO ₃ preserved	C	<2	<2	4.8	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR-2008T(180)
L2511340-05F	Plastic 250ml NaOH preserved	C	>12	>12	4.8	Y	Present/Intact		TCN-4500(14)
L2511340-05G	Plastic 500ml unpreserved	C	7	7	4.8	Y	Present/Intact		HEXCR-3500(1),FCN(1)

Project Name: SPS TECHNOLOGIES
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2511340-05H	Amber 1L HCl preserved	C	NA		4.8	Y	Present/Intact		OG-1664(28)
L2511340-05J	Amber 1L HCl preserved	C	NA		4.8	Y	Present/Intact		OG-1664(28)
L2511340-05X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	2.0	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
L2511340-06A	Vial Na2S2O3 preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)
L2511340-06B	Vial Na2S2O3 preserved	B	NA		3.4	Y	Present/Intact		624.1-PPM(7)



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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

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REFERENCES

- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 107 Calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.
- 140 Method 1664, Revision B: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-10-001, February 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass

Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

Page 2 of 2

Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF

Date Rec'd In Lab: 3/1/25

L2511340 01MAR25
GOLDER - NJ



Project Information

Project Name: SPS Technologies
Project Location: Jenkintown, PA
Project #: US0043268.2150
Project Manager: Tovah Karl
ALPHA Quote #:

Report Information - Data Deliverables

- FAX EMAIL
- ADEx Add'l Deliverables

Client Information

Client: WSP USA Inc.
Address: 10 Lake center drive
Suite 205, Marlton, NJ, 08053
Phone: 856-793-2005
Fax: 856-793-2006
Email: Tovah.Karl@wsp.com
Stacy.mason@wsp.com

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
Date Due: Time: 1 day

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
<u>PA</u>	

Other Project Specific Requirements/Comments/Detection Limits:

* Attorney-client privileged & confidential *
All VOCs in 1 cooler
Dissolved metals will need to be lab filtered

ANALYSIS	SAMPLE HANDLING															TOTAL # BOTTLES				
	Filtration	Done	Not needed	Lab to do	Preservation	Lab to do	(Please specify below)										Sample Specific Comments			
<u>Oil and Grease E16643</u>																				
<u>Free Cyanide S49500-CW</u>																				
<u>Speciate Hex Cr(VI) M100</u>																				
<u>Total Cyanide S49500-CRB</u>																				
<u>Total Nickel S49500-CW</u>																				
<u>Total Chromium E200g</u>																				
<u>Dissolved Nickel E200g</u>																				
<u>Dissolved Chromium E200g</u>																				
<u>MEK E624.1</u>																				
<u>Toluene E624.1</u>																				
<u>Total Hardness E200g</u>																				
<u>Total Zinc E200g</u>																				

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS															Sample Specific Comments	TOTAL # BOTTLES					
		Date	Time			Oil and Grease E16643	Free Cyanide S49500-CW	Speciate Hex Cr(VI) M100	Total Cyanide S49500-CRB	Total Nickel S49500-CW	Total Chromium E200g	Dissolved Nickel E200g	Dissolved Chromium E200g	MEK E624.1	Toluene E624.1	Total Hardness E200g	Total Zinc E200g										
<u>11340-01</u>	<u>SW5-022825</u>	<u>2/28/25</u>	<u>0915</u>	<u>SW</u>	<u>BL</u>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<u>pH 6.68</u>	<u>9</u>
<u>-02</u>	<u>SW4-022825</u>	<u>2/28/25</u>	<u>1005</u>	<u>SW</u>	<u>BL</u>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<u>pH 7.05</u>	<u>9</u>
<u>-03</u>	<u>SW3-022825</u>	<u>2/28/25</u>	<u>1110</u>	<u>SW</u>	<u>BL</u>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<u>pH 7.25</u>	<u>9</u>
<u>-04</u>	<u>SW2-022825</u>	<u>2/28/25</u>	<u>1145</u>	<u>SW</u>	<u>BL</u>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<u>pH 8.46</u>	<u>9</u>
<u>-05</u>	<u>SW1-022825</u>	<u>2/28/25</u>	<u>1220</u>	<u>SW</u>	<u>BL</u>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<u>pH 7.98</u>	<u>9</u>
<u>-06</u>	<u>TBSW-022825</u>	<u>2/28/25</u>	<u>-</u>	<u>W</u>	<u>BL</u>																	X	X				<u>2</u>

Container Type	<u>A</u>	<u>P</u>	<u>P</u>	<u>P</u>	<u>P</u>	<u>P</u>	<u>P</u>	<u>P</u>	<u>V</u>	<u>V</u>	<u>P</u>
Preservative	<u>B</u>	<u>A</u>	<u>A</u>	<u>E</u>	<u>C</u>	<u>C</u>	<u>A</u>	<u>A</u>	<u>H</u>	<u>H</u>	<u>C</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By: [Signature] Date/Time: 2/28/25 1545
 Received By: [Signature] Date/Time: 2/28/25 1855
Anthony Green Chain PALE 3/1/25 0315 Anthony Green Chain PALE 3/1/25 0115

CUSTODY SEAL

Date 02/28/25
Signature [Signature]

a

Thermo
SCIENTIFIC

90009

Thermo
SCIENTIFIC

CUSTODY SEAL

Date 02/28/25
Signature [Signature]

9000

CUSTODY SEAL

Date 02/28/25
Signature [Signature]

Thermo
SCIENTIFIC

90009

B

CUSTODY SEAL

Date 02/28/25
Signature [Signature]

Thermo
SCIENTIFIC

90009

CUSTODY SEAL

Date 02/28/25
Signature [Signature]

Thermo
SCIENTIFIC

90009

c

CUSTODY SEAL

Date 02/28/25
Signature [Signature]

Thermo
SCIENTIFIC

90009



ANALYTICAL REPORT

Lab Number:	L2511341
Client:	WSP USA Inc. 10 Lake Center Drive Suite 205 Marlton, NJ 08053
ATTN:	Julie Lehrman
Phone:	(856) 793-2005
Project Name:	SPS TECHNOLOGIES
Project Number:	US0043268.2150
Report Date:	03/02/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511341
Report Date: 03/02/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2511341-01	OF006_022825	WATER	JENKINTOWN, PA	02/28/25 10:10	02/28/25
L2511341-02	TBOF_022825	WATER	JENKINTOWN, PA	02/28/25 00:00	02/28/25

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511341
Report Date: 03/02/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511341
Report Date: 03/02/25

Case Narrative (continued)

Report Submission

March 02, 2025: This final report includes the results of all requested analyses.

March 01, 2025: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Melissa Sturgis

Title: Technical Director/Representative

Date: 03/02/25

ORGANICS

VOLATILES

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511341
Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511341-01
 Client ID: OF006_022825
 Sample Location: JENKINTOWN, PA

Date Collected: 02/28/25 10:10
 Date Received: 02/28/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 03/01/25 12:47
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	91		60-140
Fluorobenzene	87		60-140
4-Bromofluorobenzene	105		60-140

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511341
Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511341-02
 Client ID: TBOF_022825
 Sample Location: JENKINTOWN, PA

Date Collected: 02/28/25 00:00
 Date Received: 02/28/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 03/01/25 08:49
 Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	98		60-140
Fluorobenzene	91		60-140
4-Bromofluorobenzene	99		60-140

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511341
Report Date: 03/02/25

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 128,624.1
Analytical Date: 03/01/25 08:15
Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG2035540-4					
Toluene	ND		mg/l	0.0010	0.00031
2-Butanone	ND		mg/l	0.010	0.0010

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	100		60-140
Fluorobenzene	94		60-140
4-Bromofluorobenzene	100		60-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES

Lab Number: L2511341

Project Number: US0043268.2150

Report Date: 03/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG2035540-3								
Toluene	100		-		70-130	-		41
2-Butanone	76		-		60-140	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	102				60-140
Fluorobenzene	100				60-140
4-Bromofluorobenzene	103				60-140



METALS



Project Name: SPS TECHNOLOGIES

Lab Number: L2511341

Project Number: US0043268.2150

Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511341-01

Date Collected: 02/28/25 10:10

Client ID: OF006_022825

Date Received: 02/28/25

Sample Location: JENKINTOWN, PA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.01233		mg/l	0.01000	0.00327	1	03/01/25 07:44	03/01/25 12:39	EPA 3005A	3,200.8	MRC
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/01/25 07:44	03/01/25 12:22	EPA 3005A	3,200.8	MRC
Copper, Total	0.00357		mg/l	0.00100	0.00038	1	03/01/25 07:44	03/01/25 12:22	EPA 3005A	3,200.8	MRC
Iron, Total	0.1905		mg/l	0.05000	0.01910	1	03/01/25 07:44	03/01/25 12:22	EPA 3005A	3,200.8	MRC
Lead, Total	0.00069	J	mg/l	0.00100	0.00034	1	03/01/25 07:44	03/01/25 12:22	EPA 3005A	3,200.8	MRC
Nickel, Total	0.00231		mg/l	0.00200	0.00055	1	03/01/25 07:44	03/01/25 12:22	EPA 3005A	3,200.8	MRC
Zinc, Total	0.1147		mg/l	0.00500	0.00341	1	03/01/25 07:44	03/01/25 12:22	EPA 3005A	3,200.8	MRC
Total Hardness (by calculation) - Mansfield Lab											
Hardness	245.4		mg/l	0.5400	NA	1	03/01/25 07:44	03/01/25 12:22	EPA 3005A	3,200.8	MRC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/01/25 12:22	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	03/02/25 09:06	03/02/25 18:43	EPA 3005A	3,200.8	TAA
Nickel, Dissolved	0.0028		mg/l	0.0020	0.0006	1	03/02/25 09:06	03/02/25 18:43	EPA 3005A	3,200.8	TAA



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511341
Report Date: 03/02/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2035456-1									
Aluminum, Total	ND	mg/l	0.01000	0.00327	1	03/01/25 07:44	03/01/25 11:40	3,200.8	MRC
Chromium, Total	ND	mg/l	0.00100	0.00017	1	03/01/25 07:44	03/01/25 11:40	3,200.8	MRC
Copper, Total	ND	mg/l	0.00100	0.00038	1	03/01/25 07:44	03/01/25 11:40	3,200.8	MRC
Iron, Total	ND	mg/l	0.05000	0.01910	1	03/01/25 07:44	03/01/25 11:40	3,200.8	MRC
Lead, Total	ND	mg/l	0.00100	0.00034	1	03/01/25 07:44	03/01/25 11:40	3,200.8	MRC
Nickel, Total	ND	mg/l	0.00200	0.00055	1	03/01/25 07:44	03/01/25 11:40	3,200.8	MRC
Zinc, Total	ND	mg/l	0.00500	0.00341	1	03/01/25 07:44	03/01/25 11:40	3,200.8	MRC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab for sample(s): 01 Batch: WG2035456-1									
Hardness	ND	mg/l	0.5400	NA	1	03/01/25 07:44	03/01/25 11:40	3,200.8	MRC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG2035641-1									
Chromium, Dissolved	ND	mg/l	0.0010	0.0002	1	03/02/25 06:42	03/02/25 17:55	3,200.8	TAA
Nickel, Dissolved	ND	mg/l	0.0020	0.0006	1	03/02/25 06:42	03/02/25 17:55	3,200.8	TAA

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis

Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2511341

Report Date: 03/02/25

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2035456-2								
Aluminum, Total	97		-		85-115	-		
Chromium, Total	97		-		85-115	-		
Copper, Total	104		-		85-115	-		
Iron, Total	108		-		85-115	-		
Lead, Total	91		-		85-115	-		
Nickel, Total	102		-		85-115	-		
Zinc, Total	103		-		85-115	-		
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01 Batch: WG2035456-2								
Hardness	98		-		85-115	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2035641-2								
Chromium, Dissolved	113		-		85-115	-		
Nickel, Dissolved	102		-		85-115	-		

Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511341
Report Date: 03/02/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2035456-3 QC Sample: L2511340-01 Client ID: MS Sample												
Aluminum, Total	0.0184	2	1.890	94	-	-	-	-	70-130	-	-	20
Chromium, Total	ND	0.2	0.1924	96	-	-	-	-	70-130	-	-	20
Copper, Total	0.0023	0.25	0.2530	100	-	-	-	-	70-130	-	-	20
Iron, Total	0.1638	1	1.104	94	-	-	-	-	70-130	-	-	20
Lead, Total	ND	0.53	0.4803	91	-	-	-	-	70-130	-	-	20
Nickel, Total	0.00286	0.5	0.5111	102	-	-	-	-	70-130	-	-	20
Zinc, Total	0.0147	0.5	0.5025	98	-	-	-	-	70-130	-	-	20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2035456-3 QC Sample: L2511340-01 Client ID: MS Sample												
Hardness	197.8	66.2	257.2	90	-	-	-	-	70-130	-	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2035641-3 QC Sample: L2511340-01 Client ID: MS Sample												
Chromium, Dissolved	ND	0.2	0.2428	121	-	-	-	-	70-130	-	-	20
Nickel, Dissolved	0.0023	0.5	0.5340	106	-	-	-	-	70-130	-	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2511341

Report Date: 03/02/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2035456-4 QC Sample: L2511340-01 Client ID: DUP Sample						
Chromium, Total	ND	ND	mg/l	NC		20
Nickel, Total	0.00286	0.00273	mg/l	5		20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2035456-4 QC Sample: L2511340-01 Client ID: DUP Sample						
Hardness	197.8	200.6	mg/l	1		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG2035641-4 QC Sample: L2511340-01 Client ID: DUP Sample						
Chromium, Dissolved	ND	0.0002J	mg/l	NC		20
Nickel, Dissolved	0.0023	0.0026	mg/l	11		20

INORGANICS & MISCELLANEOUS

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511341
Report Date: 03/02/25

SAMPLE RESULTS

Lab ID: L2511341-01
Client ID: OF006_022825
Sample Location: JENKINTOWN, PA

Date Collected: 02/28/25 10:10
Date Received: 02/28/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	03/01/25 07:44	121,2540D	CVN
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	03/01/25 08:00	03/01/25 12:14	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/01/25 06:19	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	4.3		mg/l	0.10	0.046	1	-	03/01/25 06:58	44,353.2	KAF
Chemical Oxygen Demand	21.		mg/l	20	6.0	1	03/01/25 09:00	03/01/25 13:31	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/01/25 09:12	03/01/25 13:16	140,1664B	IYM
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	03/01/25 06:52	03/01/25 07:26	121,3500CR-B	DMO



Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

Lab Number: L2511341
Report Date: 03/02/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2035439-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	03/01/25 03:31	44,353.2	KAF
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2035451-1										
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/01/25 06:19	121,4500CN-E(M)	KAF
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2035455-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/01/25 06:52	03/01/25 07:17	121,3500CR-B	DMO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2035466-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/01/25 08:00	03/01/25 11:24	121,4500CN-CE	JER
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2035475-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	03/01/25 07:44	121,2540D	CVN
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2035486-1										
Chemical Oxygen Demand	ND		mg/l	20	6.0	1	03/01/25 09:00	03/01/25 13:28	44,410.4	CVN
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2035500-1										
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/01/25 09:12	03/01/25 12:22	140,1664B	IYM



Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Lab Number: L2511341

Project Number: US0043268.2150

Report Date: 03/02/25

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035439-2								
Nitrogen, Nitrate/Nitrite	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035451-2								
Cyanide, Free	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035455-2								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035466-2								
Cyanide, Total	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035475-2								
Solids, Total Suspended	91		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035486-2								
Chemical Oxygen Demand	99		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2035500-2								
Oil & Grease, Hem-Grav	84		-		78-114	-		18



Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Lab Number: L2511341

Project Number: US0043268.2150

Report Date: 03/02/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2035439-4 QC Sample: L2510935-01 Client ID: MS Sample												
Nitrogen, Nitrate/Nitrite	ND	4	3.8	95	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2035451-4 QC Sample: L2511340-01 Client ID: MS Sample												
Cyanide, Free	0.004J	0.25	0.246	98	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2035455-4 QC Sample: L2511340-02 Client ID: MS Sample												
Chromium, Hexavalent	ND	0.1	0.096	96	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2035466-3 QC Sample: L2510314-02 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.208	104	-	-	-	-	90-110	-	-	30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2035486-3 QC Sample: L2511341-01 Client ID: OF006_022825												
Chemical Oxygen Demand	21.	238	250	96	-	-	-	-	90-110	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2035500-4 QC Sample: L2511340-02 Client ID: MS Sample												
Oil & Grease, Hem-Grav	ND	44	40	92	-	-	-	-	78-114	-	-	18

Lab Duplicate Analysis

Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2511341

Report Date: 03/02/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2035439-3	QC Sample: L2510935-01	Client ID: DUP Sample		
Nitrogen, Nitrate/Nitrite	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2035451-3	QC Sample: L2511340-01	Client ID: DUP Sample		
Cyanide, Free	0.004J	ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2035455-3	QC Sample: L2511340-02	Client ID: DUP Sample		
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2035466-4	QC Sample: L2510314-02	Client ID: DUP Sample		
Cyanide, Total	ND	ND	mg/l	NC		30
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2035475-3	QC Sample: L2509502-05	Client ID: DUP Sample		
Solids, Total Suspended	1500	1600	mg/l	6		32
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2035486-4	QC Sample: L2511341-01	Client ID: OF006_022825		
Chemical Oxygen Demand	21.	21	mg/l	0		20
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2035500-3	QC Sample: L2511340-01	Client ID: DUP Sample		
Oil & Grease, Hem-Grav	ND	ND	mg/l	NC		18

Project Name: SPS TECHNOLOGIES**Lab Number:** L2511341**Project Number:** US0043268.2150**Report Date:** 03/02/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Present/Intact
B	Present/Intact
C	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2511341-01A	Vial Na ₂ S ₂ O ₃ preserved	A	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2511341-01B	Vial Na ₂ S ₂ O ₃ preserved	A	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2511341-01C	Vial Na ₂ S ₂ O ₃ preserved	A	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2511341-01D	Plastic 250ml unpreserved	A	7	7	2.0	Y	Present/Intact		-
L2511341-01E	Plastic 250ml HNO ₃ preserved	A	<2	<2	2.0	Y	Present/Intact		AL-2008T(180),NI-2008T(180),ZN-2008T(180),CU-2008T(180),HARDT-2008(180),FE-2008T(180),CR-2008T(180),PB-2008T(180)
L2511341-01F	Plastic 250ml HNO ₃ preserved	A	<2	<2	2.0	Y	Present/Intact		AL-2008T(180),NI-2008T(180),ZN-2008T(180),CU-2008T(180),HARDT-2008(180),FE-2008T(180),CR-2008T(180),PB-2008T(180)
L2511341-01G	Plastic 250ml H ₂ SO ₄ preserved	A	<2	<2	2.0	Y	Present/Intact		NO ₃ /NO ₂ -353(28),COD-410(28)
L2511341-01H	Plastic 250ml NaOH preserved	A	>12	>12	2.0	Y	Present/Intact		TCN-4500(14)
L2511341-01J	Plastic 500ml unpreserved	A	7	7	2.0	Y	Present/Intact		HEXCR-3500(1),FCN(1),TSS-2540(7)
L2511341-01K	Plastic 950ml unpreserved	A	7	7	2.0	Y	Present/Intact		HEXCR-3500(1),FCN(1),TSS-2540(7)
L2511341-01L	Amber 1L HCl preserved	A	NA		2.0	Y	Present/Intact		OG-1664(28)
L2511341-01M	Amber 1L HCl preserved	A	NA		2.0	Y	Present/Intact		OG-1664(28)
L2511341-01X	Plastic 120ml HNO ₃ preserved Filtrates	A	NA	NA	2.0	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
L2511341-02A	Vial Na ₂ S ₂ O ₃ preserved	A	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2511341-02B	Vial Na ₂ S ₂ O ₃ preserved	A	NA		2.0	Y	Present/Intact		624.1-PPM(7)

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: SPS TECHNOLOGIES
Project Number: US0043268.2150

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REFERENCES

- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 107 Calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.
- 140 Method 1664, Revision B: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-10-001, February 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

Page 2 of 2

Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.



CHAIN OF CUSTODY

PAGE 2 OF 2

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Project Information

Project Name: *SPS technologies*
 Project Location: *Jenkintown PA*
 Project #: *V50043268, 2150*
 Project Manager: *Tovah Karl*
 ALPHA Quote #:

Date Rec'd in Lab: *3/1/25*
 ALPHA Job #: *22511341*

Report Information - Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: *WSP USA Inc*
 Address: *10 Lake center drive*
Suite 205 Marlton, NJ 08053
 Phone: *856-793-2005*
 Fax: *856-793-2006*
 Email: *Tovah.Karl@wsp.com*
Stacy.Mason@wsp.com
 These samples have been previously analyzed by Alpha

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
 Date Due: Time: *1 DAY*

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
<i>PA</i>	

Other Project Specific Requirements/Comments/Detection Limits:
** Attorney client Privileged + confidential*
All VOA'S in one cooler
Dissolved metals will be lab filtered

ANALYSIS	Chemical oxygen demand	Nitrate Nitrogen	Total Nitrogen	Aluminum	Total Copper	Total Iron	Total Lead	Speciate Hex Gram	SAMPLE HANDLING		TOTAL # BOTTLES	
									Filtration	Preservation		
									<input type="checkbox"/> Done	<input type="checkbox"/> Lab to do	PH: <i>6.64</i>	<i>11</i>
								<input type="checkbox"/> Not needed	<input type="checkbox"/> Lab to do	<i>2</i>		

(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials									Sample Specific Comments
		Date	Time											
<i>11341-01</i>	<i>QF006_022825</i>	<i>2/28/25</i>	<i>10:10</i>	<i>SW</i>	<i>LOS</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>PH: 6.64</i>
<i>-02</i>	<i>TBOF_022825</i>	<i>2/28/25</i>	<i>—</i>	<i>W</i>	<i>—</i>									

Container Type	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>
Preservative	<i>D</i>	<i>D</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>A</i>

Relinquished By: <i>Anthony Green</i>	Date/Time <i>2/28/25 1545</i>	Received By: <i>Tom Karl</i>	Date/Time <i>2/28/25 1545</i>
<i>Anthony Green</i>	<i>2/28</i>	<i>Anthony Green</i>	<i>2/28/25</i>

Chain of Custody

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FEB 28 2025 22:40
3/1/25 0115
3/1/0315

CUSTODY SEAL

Date 02/28/25
Signature CAA

Thermo
SCIENTIFIC

90009

a

Thermo
SCIENTIFIC

CUSTODY SEAL

Date 02/28/25
Signature CAA

9000

CUSTODY SEAL

Date 02/28/25
Signature CAA

Thermo
SCIENTIFIC

90009

B

CUSTODY SEAL

Date 02/28/25
Signature CAA

Thermo
SCIENTIFIC

90009

CUSTODY SEAL

Date 02/28/25
Signature CAA

Thermo
SCIENTIFIC

90009

c

CUSTODY SEAL

Date 02/28/25
Signature CAA

Thermo
SCIENTIFIC

90009