SPS Technologies - Abington PA
Outfall Sampling Results Report for May 22, 2025

Prepared For:
SPS Technologies

Prepared By:
TRC Environmental Corporation, Inc
1617 JFK Boulevard, Suite 510
Philadelphia, PA 19103

May 28, 2025

TABLE OF CONTENTS

Page No.

Figures

Table

Appendices

1.0 EXECUTIVE SUMMARY

TRC Environmental Corporation (TRC), on behalf of SPS Technologies Abington PA (SPS), collected three outfall samples in accordance with TRC Surface Water and Outfall Sampling Plan revised on March 25, 2025 (Sampling Plan). The samples were collected on May 22, 2025 and submitted to a Pennsylvania-certified analytical laboratory for analysis. The sample locations are shown in the attached **Figure 1** and the results of the analysis are shown below. No sheet flow sample was collected due to lack of flow.

Outfall		Outfall 002	Outfall 006	Outfall 009	Outfall 009 (Duplicate)
Parameter	**Units**	Result	Result	Result	Result
Volatile Organic Compounds					
Toluene	mg/L	ND	ND	ND	ND
2-Butanone (MEK)	mg/L	ND	ND	ND	ND
General Chemistry					
Chromium, Trivalent	mg/L	ND	ND	0.003 J	0.007 J
Chromium, Hexavalent	mg/L	0.007 J	ND	0.004 J	ND
Total Cyanide	mg/L	0.007	ND	0.039	0.041
Free Cyanide	mg/L	ND	ND	0.036	0.036
Oil & Grease	mg/L	ND	ND	ND	ND
Total Suspended Solids	mg/L	ND	ND	13 J	7.4 J
Nitrate/Nitrite as Nitrogen	mg/L	1.2	2.6	0.56	0.60
Chemical Oxygen Demand	mg/L	58	ND	27	18 J
Total Metals					
Total Aluminum	mg/L	0.2553	0.04659	0.4242	0.4384
Total Chromium	mg/L	0.00630	0.00037 J	0.00797	0.00794
Total Copper	mg/L	0.01067	0.00351	0.03380	0.03122
Total Iron	mg/L	0.3938	0.1314	0.7310	0.6577
Total Lead	mg/L	0.00211	0.00058 J	0.00650	0.00620
Total Nickel	mg/L	0.00931	0.00099 J	0.00696	0.00619
Total Zinc	mg/L	0.05399	0.01321	0.08200	0.07745
Dissolved Metals					
Dissolved Chromium	mg/L	0.0049	0.0002 J	0.0037	0.0038
Dissolved Nickel	mg/L	0.0088	0.0009 J	0.0041	0.0042
Total Hardness					
Hardness	mg/L	127.4	143.5	60.63	56.52
Field Parameters					
pH	SU	7.20	7.22	7.97	7.97

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

2.0 INTRODUCTION

This Outfall Sampling Results Report for May 22, 2025 (Sampling Report) was prepared by TRC Environmental Corporation, Inc., (TRC) on behalf of SPS Technologies Abington PA (SPS). The SPS facility is located at 301 Highland Avenue, Jenkintown, PA 19046 (Site). This Sampling Report was prepared to provide the outfall sampling results from May 22, 2025, which were collected in accordance with the TRC Surface Water and Outfall Sampling Plan revised on March 25, 2025 and approved by the PADEP on April 2, 2025.

2.1 Background

The Site is currently owned by SPS Technologies. On February 17, 2025, a fire broke out at the facility causing major damage and a cessation of operation. Prior to the fire, facility operations consisted of manufacturing of bolts, nuts, screws, rivets, washers, furniture, and fixtures.

3.0 STORMWATER INVESTIGATION

TRC collected three stormwater samples from three permitted outfalls as a result of the qualifying precipitation event on May 22, 2025.

3.1 Outfall Sampling Methodology

TRC collected the outfall samples in accordance with the Sampling Plan. Field data collected from the location during the sampling include:

- Water depth
- Weather conditions
- Physical characteristics (clarity, appearance, odor)
- Water Quality (DO, pH, OPR, turbidity, conductivity, and temperature)
- Water velocity (visibly moving)

The field data is documented in the field sampling form included as **Appendix A**, except for the in-field pH measurement, which is summarized in **Table 1**.

3.2 Outfall Sampling

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.

3.3 Outfall Sampling Results

Stormwater samples were collected from three permitted outfall locations in accordance with Sampling Plan for the following parameters:

- Chemical Oxygen Demand
- Total Suspended Solids
- Nitrate-Nitrite as N
- Hexavalent Chromium (calculated for Trivalent Chromium)
- Total Aluminum
- Total Copper
- Total Iron
- Total Lead
- Total Zinc
- Oil & Grease
- Free Cyanide
- Total Cyanide
- Total Nickel
- Dissolved Nickel
- Total Chromium
- Dissolved Chromium

- Methyl ethyl ketone (2-Butanone)
- Toluene
- Hardness

The validated analytical results are summarized in **Table 1**. The sampling location is shown on **Figure 1**.

4.0 DATA QUALITY ASSURANCE/QUALITY CONTROL MANAGEMENT

4.1 Field Quality Assurance/Quality Control Requirements.

Field personnel performed data quality control (QC) verification of field measurements. This process includes equipment calibration, reviewing calibration records, and duplicate readings to ensure data accuracy. Field measurements were documented in the field information form included as **Appendix A** and pH readings are summarized in **Table 1**.

All hand equipment used during the sampling event was cleaned with Alconox and distilled water. Disposable equipment was used for sample collection and processing as appropriate. Field personnel wore disposable nitrile sampling gloves during sampling activities. Sampling gloves were discarded following collection at each sample location and replaced before handling decontaminated equipment or work surfaces.

4.2 Analytical QA/QC Samples

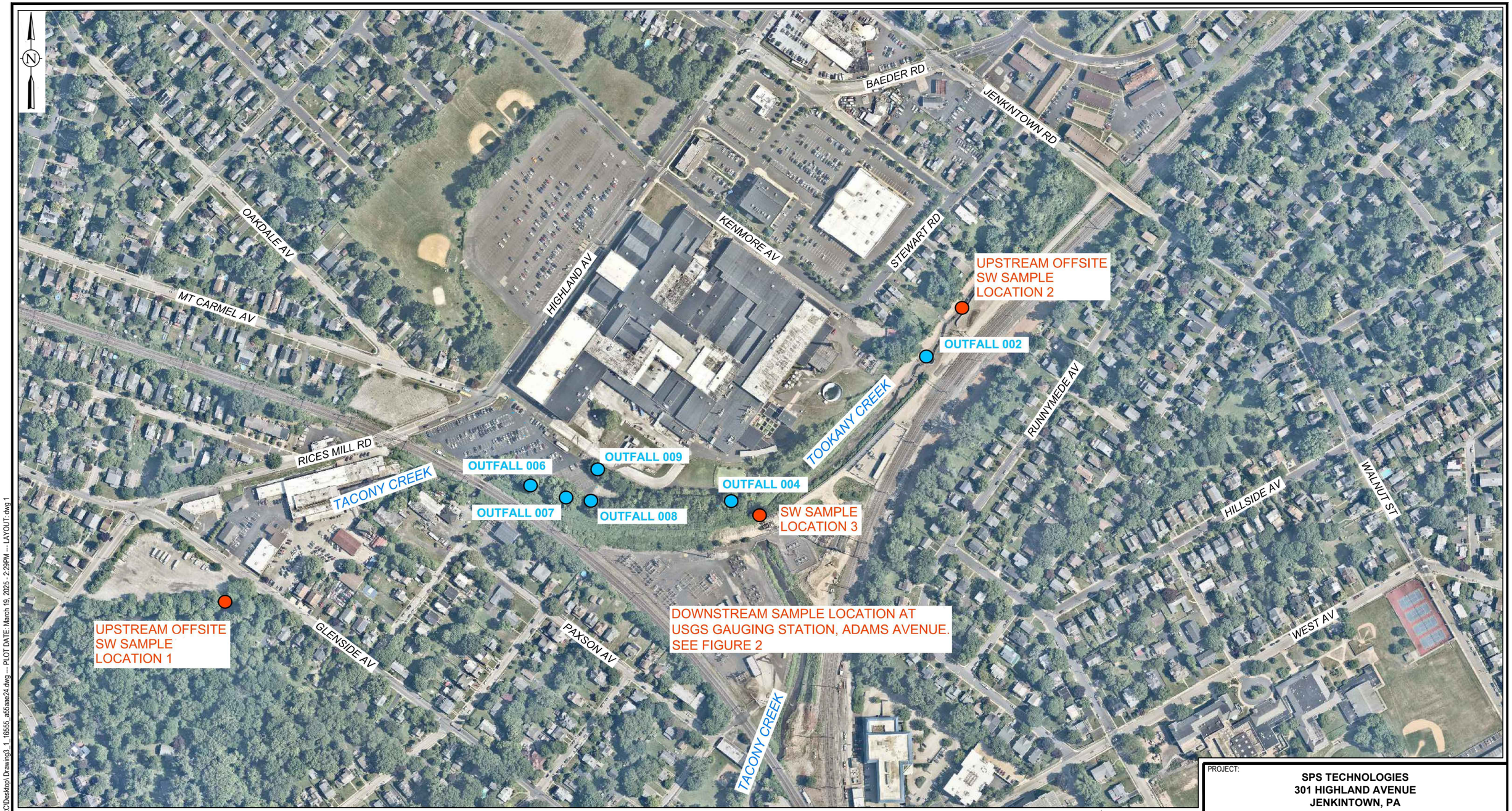
All quality assurance and quality control (QA/QC), field duplicates and matrix spikes/matrix spike duplicates (MS/MSD) were collected in accordance with the Sampling Plan at a rate of 1 per 20 samples per day. A trip blank was included daily for volatile organic compounds (VOCs). A field blank was not collected because single-use disposable ladles were used to collect samples.

4.3 Data Evaluation

The reliability of the analytical data was evaluated to assess its suitability for use in off-Site surface water 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 was performed in accordance with the Sampling Plan. The data validation report is included as **Appendix B**. The laboratory analytical report is included as **Appendix C**.

4.4 References

- SPS Technologies Surface Water and Outfall Sampling Plan, revised on March 25, 2025



SOURCE
NEARMAP IMAGERY, JUNE 16, 2024.

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

0 300 600
SCALE IN FEET

PROJECT:
SPS TECHNOLOGIES
301 HIGHLAND AVENUE
JENKINTOWN, PA

TITLE:
ONSITE INVESTIGATION SURFACE WATER AND OUTFALL SAMPLING LOCATIONS

DRAWN BY:	M. GIAMBATTISTA	PROJ NO.:	658978.0000
CHECKED BY:	J. ACTON		
APPROVED BY:	D. CARLSON		**FIGURE 1**
DATE:	MARCH 2025		

TRC
1617 JOHN F. KENNEDY BLVD.
SUITE 510
PHILADELPHIA, PA 19103

FILE NO.: Drawing3_1_16555_a55aae24.dwg

11:47 - USER: MGiambattista - - ATTACHED XREFS: - - ATTACHED IMAGES:
DRAWING NAME: C:\Users\mgiambattista\OneDrive - TRC\Desktop\Drawing3_1_16555_a55aae24.dwg -- PLOT DATE: March 19, 2025 - 2:29PM -- LAYOUT: dwg 1
Version: 2017-10-21

May 2025

Table 1

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

Project Number: 658978

Sample Location		Outfall 002				Outfall 006				Outfall 009				Outfall 009 (Duplicate)			
Field Sample ID		OF002-052225				OF006-052225				OF009-052225				DUP-052225			
Lab Sample ID		L2532334-01				L2532334-02				L2532334-03				L2532334-04			
Sampling Date		5/22/2025				5/22/2025				5/22/2025				5/22/2025			
Matrix		Water				Water				Water				Water			
Parameter	**Units**	Result	Q	RL	MDL	Result	Q	RL	MDL	Result	Q	RL	MDL	Result	Q	RL	MDL
Volatile Organic Compounds																	
Toluene	mg/L	ND		0.0010	0.00031	ND		0.0010	0.00031	ND		0.0010	0.00031	ND		0.0010	0.00031
2-Butanone (MEK)	mg/L	ND		0.010	0.0010	ND		0.010	0.0010	ND		0.010	0.0010	ND		0.010	0.0010
General Chemistry																	
Chromium, Trivalent	mg/L	ND		0.0010	0.003	ND		0.0010	0.003	0.003	J	0.0010	0.003	0.007	J	0.0010	0.003
Chromium, Hexavalent	mg/L	0.007	J	0.010	0.003	ND		0.010	0.003	0.004	J	0.010	0.003	ND		0.010	0.003
Total Cyanide	mg/L	0.007		0.005	0.001	ND		0.005	0.001	0.039		0.005	0.001	0.041		0.005	0.001
Free Cyanide	mg/L	ND		0.010	0.003	ND		0.010	0.003	0.036		0.010	0.003	0.036		0.010	0.003
Oil & Grease	mg/L	ND		4.0	4.0	ND		4.0	4.0	ND		4.0	4.0	ND		4.0	4.0
Total Suspended Solids	mg/L	ND		5.0	NA	ND		5.0	NA	13	J	5.0	NA	7.4	J	5.0	NA
Nitrate/Nitrite as Nitrogen	mg/L	1.2		0.10	0.046	2.6		0.10	0.046	0.56		0.10	0.046	0.60		0.10	0.046
Chemical Oxygen Demand	mg/L	58		20	6.0	ND		20	6.0	27		20	6.0	18	J	20	6.0
Total Metals																	
Total Aluminum	mg/L	0.2553		0.01000	0.00327	0.04659		0.01000	0.00327	0.4242		0.01000	0.00327	0.4384		0.00100	0.00327
Total Chromium	mg/L	0.00630		0.00100	0.00017	0.00037	J	0.00100	0.00017	0.00797		0.00100	0.00017	0.00794		0.00100	0.00017
Total Copper	mg/L	0.01067		0.00100	0.00038	0.00351		0.00100	0.00038	0.03380		0.00100	0.00038	0.03122		0.00100	0.00038
Total Iron	mg/L	0.3938		0.05000	0.01910	0.1314		0.05000	0.01910	0.7310		0.05000	0.01910	0.6577		0.05000	0.01910
Total Lead	mg/L	0.00211		0.00100	0.00034	0.00058	J	0.00100	0.00034	0.00650		0.00100	0.00034	0.00620		0.00100	0.00034
Total Nickel	mg/L	0.00931		0.00200	0.00055	0.00099	J	0.00200	0.00055	0.00696		0.00200	0.00055	0.00619		0.00200	0.00055
Total Zinc	mg/L	0.05399		0.00500	0.00341	0.01321		0.00500	0.00341	0.08200		0.00500	0.00341	0.07745		0.00500	0.00341
Dissolved Metals																	
Dissolved Chromium	mg/L	0.0049		0.0010	0.0002	0.0002	J	0.0010	0.0002	0.0037		0.0010	0.0002	0.0038		0.0010	0.0002
Dissolved Nickel	mg/L	0.0088		0.0020	0.0006	0.0009	J	0.0020	0.0006	0.0041		0.0020	0.0006	0.0042		0.0020	0.0006
Total Hardness																	
Hardness	mg/L	127.4		0.5400	---	143.5		0.5400	---	60.63		0.5400	---	56.52		0.5400	---
Field Parameters																	
pH[1]	SU	7.20				7.22				7.97				7.97			

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

Abbreviations:
MDL: Method Detection Limit
mg/L: milligrams per liter
ND: Non-Detect
NA: Not Applicable
Q: Qualifier
RL: Reporting Limit
SU: Standard Units

Qualifiers:
Qualifiers:
J: Estimated Result

Created By: JM 5/27/25 Checked By: MO 5/27/25

Date 5/22/25

Project Number 658978

SURFACE WATER/OUTFALL SAMPLE FIELD INFORMATION FORM

Site SPS
Location Abington PA
Project Number 658978
Water Quality Meter Hach HQ40d US2 S/N: 01B603X
Meter Calibrated @: 5/22/25 @ 0710
Flow Meter S/N:
Sampling Date/Time 5/22/25

Sampler(s) T. Thompson
Sampling Device Dipper
Sample Characteristics
Analytical Parameters:

Additional Notes
Collect Dup-052225 from OF009
Collect triplicate volume from OF006

Gate combo: 1502

Weather Conditions: 51°F, cloudy light rain, 16MPH 80deg: wind

Sample Location	Station Description	Date	Time	Total Depth ft	Sample Depth	Water Temp	Salinity ppt	pH SU	Cond mS/cm	ORP mV	Turbidity NTU	DO mg/L	Velocity ft/sec
OF009_052225 ~~Outfall 009~~	outfall	5/22/25	0740	0.02	0.01	13.28	0.37	7.97	0.768	246	38.6	5.45	NM
	Sample Characteristics	light brn in color, no odor, no PID reading											
OF006 ~~052225 1330~~	outfall	5/22/25	0840	0.20	0.10	13.64	0.27	7.22	0.557	202	64	6.78	NM
	Sample Characteristics												
OF002-052225	Outfall	5/22/25	1034	NM	NM	14.68	0.34	7.20	0.702	251	16.0	6.34	NM
	Sample Characteristics												
	Sample Characteristics												
	Sample Characteristics												
	Sample Characteristics												

TRC

Data Validation Report

Site: SPS Technologies, Outfall Sampling
Laboratory: Pace Analytical, Westborough and Mansfield, MA
SDG No.: L2532334
Parameters: Select Volatile Organic Compounds (VOCs), Select Metals, Hardness, Total Suspended Solids (TSS), Total Cyanide, Free Cyanide, Nitrate/Nitrite, Chemical Oxygen Demand (COD), Oil & Grease, Hexavalent Chromium, Trivalent Chromium
Data Reviewer: Jessica Esser/TRC
Peer Reviewer: Nancy Bergstrom/TRC
Date: May 27, 2025

Samples Reviewed and Evaluation Summary

4 Outfall Samples: OF002-052225, OF006-052225, OF009-052225, DUP-052225[1]

1 Trip Blank: TRIP BLANK-052225

[1]Field duplicate of OF009-052225

The above-listed samples were collected on May 22, 2025 and were analyzed for one or more of the following parameters.

- Select VOCs (toluene, 2-butanone) using EPA Method 624.1
- Select total metals (aluminum, chromium, copper, iron, lead, nickel, zinc) using EPA Method 200.8
- Select dissolved metals (chromium, nickel) using EPA Method 200.8
- Total hardness (by calculation) using EPA Method 200.8
- TSS using Standard Methods (SM) 2540D
- Total cyanide using SM 4500 CN-CE
- Free cyanide using SM 4500 CN-E (M)
- Nitrate/nitrite using EPA Method 353.2
- COD using EPA Method 410.4
- Oil and grease using EPA Method 1664B
- Hexavalent chromium using SM 3500 CR-B
- Trivalent chromium by calculation

Limited data validation was performed in accordance with *USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-20-005),* November 2020 and *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA-542-R-20-006),* November 2020, modified for the methodologies utilized.

The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- * Holding Times and Sample Preservation
- * Blanks
- * Surrogate Recoveries (VOCs only)
- * Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- * Laboratory Duplicate Results

* • Laboratory Control Sample (LCS) Results
• Field Duplicate Results
• Sample Results and Reported Quantitation Limits (QLs)

* - All criteria were met.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives. Qualifications applied to the data as a result of sampling error are discussed below.

- The positive results for TSS in samples OF009-052225 and DUP-052225 were qualified as estimated (J) due to field duplicate variability. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select metals, trivalent chromium, COD, and hexavalent chromium results that were below the lowest calibration standard and QL. These results were qualified as estimated (J) by the laboratory in the associated samples. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

Data Completeness

The data package was a complete Level 2 data package with the following exceptions/notes.

- The laboratory performed MS/laboratory duplicate analyses on sample OF006-052225 for nitrate/nitrite and COD rather than MS/MSD analyses as requested on the COC.
- MS/MSD analyses were not performed on sample OF006-052225 for TSS as requested on the COC; a laboratory duplicate analysis was performed instead due to the nature of the analysis.

There is no impact on the data usability due to these issues and no validation actions were taken on this basis.

Holding Times and Sample Preservation

All holding time and preservation criteria were met for all parameters.

Blanks

Target analytes were not detected in the associated laboratory method blanks. Target VOCs were not detected in the trip blank. A field blank was not submitted with the data set.

Surrogate Recoveries (VOCs only)

All criteria were met.

MS/MSD Results

MS/MSD analyses were performed on sample OF006-052225 for VOCs, total and dissolved metals,

hardness, total cyanide, free cyanide, oil and grease, and hexavalent chromium. MS analyses were performed on sample OF006-052225 for nitrate/nitrite and COD. All criteria were met.

Laboratory Duplicate Results

Laboratory duplicate analyses were performed on sample OF006-052225 for TSS, total cyanide, free cyanide, nitrate/nitrite, COD, oil and grease, and hexavalent chromium. All criteria were met.

LCS Results

All criteria were met for all parameters.

Field Duplicate Results

Samples OF009-052225 and DUP-052225-1 were submitted as the field duplicate pair with this sample set. The following table summarizes the relative percent differences (RPDs) and/or absolute differences (AbsDs), where applicable, of the detected analytes. The QL was used in the calculation of the AbsD for ND results. With the exceptions listed in the table below, all criteria were met.

Analyte	QLs (mg/L)	OF009-052225 (mg/L)	DUP-052225 (mg/L)	RPD (%) or AbsD (mg/L)	Validation Action
TSS	5.0	13	7.4	AbsD = 5.6 (> QL)	The positive results for TSS in samples OF009-052225 and DUP-052225 were qualified as estimated (J). No qualification was required on this basis for the ND results for TSS in samples OF002-052225 and OF006-052225.
Total Aluminum	0.010	0.4242	0.4384	RPD = 3.3	None; all criteria were met.
Total Chromium	0.001	0.00797	0.00794	RPD = 0.4	
Total Copper	0.001	0.03380	0.03122	RPD = 7.9	
Total Iron	0.050	0.7310	0.6577	RPD = 10.6	
Total Lead	0.001	0.00650	0.00620	RPD = 4.7	
Total Nickel	0.002	0.00696	0.00619	AbsD = 0.00077	
Total Zinc	0.005	0.08200	0.07745	RPD = 5.7	
Hardness	0.54	60.63	56.52	RPD = 7.0	
Trivalent Chromium	0.010	0.003 J	0.007 J	AbsD = 0.004	
Dissolved Chromium	0.001	0.0037	0.0038	AbsD = 0.0001	
Dissolved Nickel	0.002	0.0041	0.0042	AbsD = 0.0001	
Total Cyanide	0.005	0.039	0.041	RPD = 5.0	
Free Cyanide	0.01	0.036	0.036	AbsD = 0	
Nitrate/Nitrite	0.10	0.56	0.60	RPD = 6.9	
COD	20	27	18 J	AbsD = 9	
Hexavalent Chromium	0.01	0.004 J	ND	AbsD = 0.006	

Field duplicate criteria are as follows:

- RPD ≤ 30 when positive results for both samples are ≥ 5x QL
- AbsD ≤ QL when one or both results are < 5x QL

Sample Results and Reported Quantitation Limits

Select metals, trivalent chromium, COD, and hexavalent chromium results were reported that were below the lowest calibration standard level and QL. These results were qualified as estimated (J) in the associated samples by the laboratory.

There were no dilutions performed on the samples in this data set.

The total and dissolved metal results were evaluated during data validation to identify any dissolved concentrations that were significantly higher than the associated total concentration. The evaluation was based on the following criteria to determine significance: percent difference (%D) should be ≤ 20% when dissolved results are greater than total results and both results are ≥ 5x the QL. If the dissolved result was > the total and one or both results were < 5x the QL, then the AbsD should be ≤ 2x the QL. These criteria were met for all samples.

QUALIFIED FORM 1s

VOLATILES

Project Name: SPS TECHNOLOGIES
Lab Number: L2532334
Project Number: 658978
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-01
Client ID: OF002-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 10:34
Date Received: 05/22/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/23/25 12:11
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	100		60-140
Fluorobenzene	99		60-140
4-Bromofluorobenzene	100		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-02
Client ID: OF006-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 08:40
Date Received: 05/22/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/23/25 12:45
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	90		60-140
Fluorobenzene	97		60-140
4-Bromofluorobenzene	98		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-03
Client ID: OF009-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 07:40
Date Received: 05/22/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/23/25 13:18
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	96		60-140
4-Bromofluorobenzene	101		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-04
Client ID: DUP-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 00:00
Date Received: 05/22/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/23/25 13:51
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	96		60-140
4-Bromofluorobenzene	101		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-05
Client ID: TRIP BLANK-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 00:00
Date Received: 05/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/23/25 10:47
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

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

METALS

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-01
Client ID: OF002-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 10:34
Date Received: 05/22/25
Field Prep: Refer to COC

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	0.2553		mg/l	0.01000	0.00327	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Chromium, Total	0.00630		mg/l	0.00100	0.00017	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Copper, Total	0.01067		mg/l	0.00100	0.00038	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Iron, Total	0.3938		mg/l	0.05000	0.01910	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Lead, Total	0.00211		mg/l	0.00100	0.00034	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00931		mg/l	0.00200	0.00055	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Zinc, Total	0.05399		mg/l	0.00500	0.00341	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Total Hardness (by calculation) - Mansfield Lab											
Hardness	127.4		mg/l	0.5400	NA	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		05/23/25 13:42	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0049		mg/l	0.0010	0.0002	1	05/23/25 08:11	05/23/25 12:08	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0088		mg/l	0.0020	0.0006	1	05/23/25 08:11	05/23/25 12:08	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-02
Client ID: OF006-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 08:40
Date Received: 05/22/25
Field Prep: Refer to COC

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	0.04659		mg/l	0.01000	0.00327	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Chromium, Total	0.00037	J	mg/l	0.00100	0.00017	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Copper, Total	0.00351		mg/l	0.00100	0.00038	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Iron, Total	0.1314		mg/l	0.05000	0.01910	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Lead, Total	0.00058	J	mg/l	0.00100	0.00034	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00099	J	mg/l	0.00200	0.00055	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Zinc, Total	0.01321		mg/l	0.00500	0.00341	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Total Hardness (by calculation) - Mansfield Lab											
Hardness	143.5		mg/l	0.5400	NA	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		05/23/25 13:28	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	05/23/25 08:11	05/23/25 11:54	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0009	J	mg/l	0.0020	0.0006	1	05/23/25 08:11	05/23/25 11:54	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-03
Client ID: OF009-052225
Sample Location: JENKINTOWN, PA
Sample Depth:
Matrix: Water

Date Collected: 05/22/25 07:40
Date Received: 05/22/25
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.4242		mg/l	0.01000	0.00327	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Chromium, Total	0.00797		mg/l	0.00100	0.00017	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Copper, Total	0.03380		mg/l	0.00100	0.00038	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Iron, Total	0.7310		mg/l	0.05000	0.01910	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Lead, Total	0.00650		mg/l	0.00100	0.00034	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00696		mg/l	0.00200	0.00055	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Zinc, Total	0.08200		mg/l	0.00500	0.00341	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Total Hardness (by calculation) - Mansfield Lab											
Hardness	60.63		mg/l	0.5400	NA	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.003	J	mg/l	0.010	0.003	1		05/23/25 13:47	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0037		mg/l	0.0010	0.0002	1	05/23/25 08:11	05/23/25 12:13	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0041		mg/l	0.0020	0.0006	1	05/23/25 08:11	05/23/25 12:13	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-04
Client ID: DUP-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 00:00
Date Received: 05/22/25
Field Prep: Refer to COC

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	0.4384		mg/l	0.01000	0.00327	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Chromium, Total	0.00794		mg/l	0.00100	0.00017	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Copper, Total	0.03122		mg/l	0.00100	0.00038	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Iron, Total	0.6577		mg/l	0.05000	0.01910	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Lead, Total	0.00620		mg/l	0.00100	0.00034	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00619		mg/l	0.00200	0.00055	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Zinc, Total	0.07745		mg/l	0.00500	0.00341	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Total Hardness (by calculation) - Mansfield Lab											
Hardness	56.52		mg/l	0.5400	NA	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.007	J	mg/l	0.010	0.003	1		05/23/25 14:11	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0038		mg/l	0.0010	0.0002	1	05/23/25 08:11	05/23/25 13:23	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0042		mg/l	0.0020	0.0006	1	05/23/25 08:11	05/23/25 13:23	EPA 3005A	3,200.8	BLR

INORGANICS
&
MISCELLANEOUS

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-01
Client ID: OF002-052225
Sample Location: JENKINTOWN, PA
Sample Depth:
Matrix: Water

Date Collected: 05/22/25 10:34
Date Received: 05/22/25
Field Prep: Refer to COC

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	-	05/23/25 09:16	121,2540D	CVN
Cyanide, Total	0.007		mg/l	0.005	0.001	1	05/24/25 08:40	05/25/25 10:53	121,4500CN-CE	SRM
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/23/25 06:41	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	1.2		mg/l	0.10	0.046	1	-	05/23/25 07:24	44,353.2	KAF
Chemical Oxygen Demand	58.		mg/l	20	6.0	1	05/23/25 10:45	05/23/25 14:30	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/23/25 09:06	05/23/25 13:36	140,1664B	TPR
Chromium, Hexavalent	0.007	J	mg/l	0.010	0.003	1	05/23/25 06:15	05/23/25 06:30	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-02
Client ID: OF006-052225
Sample Location: JENKINTOWN, PA

Date Collected: 05/22/25 08:40
Date Received: 05/22/25
Field Prep: Refer to COC

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	-	05/23/25 09:16	121,2540D	CVN
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/24/25 08:40	05/25/25 10:54	121,4500CN-CE	SRM
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/23/25 06:41	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	2.6		mg/l	0.10	0.046	1	-	05/23/25 07:25	44,353.2	KAF
Chemical Oxygen Demand	ND		mg/l	20	6.0	1	05/23/25 10:45	05/23/25 14:30	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/23/25 09:06	05/23/25 10:34	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/23/25 06:15	05/23/25 06:31	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-03
Client ID: OF009-052225
Sample Location: JENKINTOWN, PA

Date Collected: 05/22/25 07:40
Date Received: 05/22/25
Field Prep: Refer to COC

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	13.	J	mg/l	5.0	NA	1	-	05/23/25 09:16	121,2540D	CVN
Cyanide, Total	0.039		mg/l	0.005	0.001	1	05/24/25 08:40	05/25/25 10:58	121,4500CN-CE	SRM
Cyanide, Free	0.036		mg/l	0.010	0.003	1	-	05/23/25 06:41	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	0.56		mg/l	0.10	0.046	1	-	05/23/25 07:28	44,353.2	KAF
Chemical Oxygen Demand	27.		mg/l	20	6.0	1	05/23/25 10:45	05/23/25 14:30	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/23/25 09:06	05/23/25 13:37	140,1664B	TPR
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	05/23/25 06:15	05/23/25 06:34	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-04
Client ID: DUP-052225
Sample Location: JENKINTOWN, PA

Date Collected: 05/22/25 00:00
Date Received: 05/22/25
Field Prep: Refer to COC

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	7.4	J	mg/l	5.0	NA	1	-	05/23/25 09:16	121,2540D	CVN
Cyanide, Total	0.041		mg/l	0.005	0.001	1	05/24/25 08:40	05/25/25 11:01	121,4500CN-CE	SRM
Cyanide, Free	0.036		mg/l	0.010	0.003	1	-	05/23/25 06:41	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	0.60		mg/l	0.10	0.046	1	-	05/23/25 07:29	44,353.2	KAF
Chemical Oxygen Demand	18.	J	mg/l	20	6.0	1	05/23/25 10:45	05/23/25 14:30	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/23/25 09:06	05/23/25 13:38	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/23/25 06:15	05/23/25 06:35	121,3500CR-B	DMO

ANALYTICAL REPORT

Lab Number:	L2532334
Client:	TRC Environmental 1617 JFK Blvd. Suite 510 Philadelphia, PA 19103
ATTN:	Julie Acton
Phone:	(215) 563-2122
Project Name:	SPS TECHNOLOGIES
Project Number:	658978
Report Date:	05/27/25

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: 658978

Lab Number: L2532334
Report Date: 05/27/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2532334-01	OF002-052225	WATER	JENKINTOWN, PA	05/22/25 10:34	05/22/25
L2532334-02	OF006-052225	WATER	JENKINTOWN, PA	05/22/25 08:40	05/22/25
L2532334-03	OF009-052225	WATER	JENKINTOWN, PA	05/22/25 07:40	05/22/25
L2532334-04	DUP-052225	WATER	JENKINTOWN, PA	05/22/25 00:00	05/22/25
L2532334-05	TRIP BLANK-052225	WATER	JENKINTOWN, PA	05/22/25 00:00	05/22/25

Project Name:	SPS TECHNOLOGIES	**Lab Number:**	L2532334
Project Number:	658978	**Report Date:**	05/27/25

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	**Lab Number:**	L2532334
Project Number:	658978	**Report Date:**	05/27/25

Case Narrative (continued)

Report Submission

May 27, 2025: This final report includes the results of all requested analyses.

May 23, 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: Kelly Stenstrom

Title: Technical Director/Representative Date: 05/27/25

ORGANICS

VOLATILES

Project Name: SPS TECHNOLOGIES
Lab Number: L2532334
Project Number: 658978
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-01
Client ID: OF002-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 10:34
Date Received: 05/22/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/23/25 12:11
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	100		60-140
Fluorobenzene	99		60-140
4-Bromofluorobenzene	100		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-02
Client ID: OF006-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 08:40
Date Received: 05/22/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/23/25 12:45
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	90		60-140
Fluorobenzene	97		60-140
4-Bromofluorobenzene	98		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-03
Client ID: OF009-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 07:40
Date Received: 05/22/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/23/25 13:18
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	96		60-140
4-Bromofluorobenzene	101		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-04
Client ID: DUP-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 00:00
Date Received: 05/22/25
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/23/25 13:51
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	96		60-140
4-Bromofluorobenzene	101		60-140

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-05
Client ID: TRIP BLANK-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 00:00
Date Received: 05/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/23/25 10:47
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

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

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 05/23/25 10:14
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG2070606-4					
Toluene	ND		mg/l	0.0010	0.00031
2-Butanone	ND		mg/l	0.010	0.0010

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	102		60-140
Fluorobenzene	97		60-140
4-Bromofluorobenzene	95		60-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG2070606-3								
Toluene	105		-		70-130	-		41
2-Butanone	120		-		60-140	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	106				60-140
Fluorobenzene	105				60-140
4-Bromofluorobenzene	98				60-140

Matrix Spike Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2070606-5 WG2070606-6 QC Sample: L2532334-02 Client ID: OF006-052225												
Toluene	ND	0.02	0.022	110		0.027	135		47-150	20		41
2-Butanone	ND	0.05	0.064	128		0.065	130		60-140	2		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
4-Bromofluorobenzene	100		97		60-140
Fluorobenzene	104		100		60-140
Pentafluorobenzene	92		93		60-140

METALS

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-01
Client ID: OF002-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 10:34
Date Received: 05/22/25
Field Prep: Refer to COC

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	0.2553		mg/l	0.01000	0.00327	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Chromium, Total	0.00630		mg/l	0.00100	0.00017	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Copper, Total	0.01067		mg/l	0.00100	0.00038	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Iron, Total	0.3938		mg/l	0.05000	0.01910	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Lead, Total	0.00211		mg/l	0.00100	0.00034	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00931		mg/l	0.00200	0.00055	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Zinc, Total	0.05399		mg/l	0.00500	0.00341	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
Total Hardness (by calculation) - Mansfield Lab											
Hardness	127.4		mg/l	0.5400	NA	1	05/23/25 08:11	05/23/25 13:42	EPA 3005A	3,200.8	BLR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		05/23/25 13:42	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0049		mg/l	0.0010	0.0002	1	05/23/25 08:11	05/23/25 12:08	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0088		mg/l	0.0020	0.0006	1	05/23/25 08:11	05/23/25 12:08	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-02
Client ID: OF006-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 08:40
Date Received: 05/22/25
Field Prep: Refer to COC

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	0.04659		mg/l	0.01000	0.00327	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Chromium, Total	0.00037	J	mg/l	0.00100	0.00017	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Copper, Total	0.00351		mg/l	0.00100	0.00038	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Iron, Total	0.1314		mg/l	0.05000	0.01910	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Lead, Total	0.00058	J	mg/l	0.00100	0.00034	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00099	J	mg/l	0.00200	0.00055	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Zinc, Total	0.01321		mg/l	0.00500	0.00341	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
Total Hardness (by calculation) - Mansfield Lab											
Hardness	143.5		mg/l	0.5400	NA	1	05/23/25 08:11	05/23/25 13:28	EPA 3005A	3,200.8	BLR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		05/23/25 13:28	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	05/23/25 08:11	05/23/25 11:54	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0009	J	mg/l	0.0020	0.0006	1	05/23/25 08:11	05/23/25 11:54	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-03
Client ID: OF009-052225
Sample Location: JENKINTOWN, PA
Sample Depth:
Matrix: Water

Date Collected: 05/22/25 07:40
Date Received: 05/22/25
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.4242		mg/l	0.01000	0.00327	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Chromium, Total	0.00797		mg/l	0.00100	0.00017	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Copper, Total	0.03380		mg/l	0.00100	0.00038	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Iron, Total	0.7310		mg/l	0.05000	0.01910	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Lead, Total	0.00650		mg/l	0.00100	0.00034	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00696		mg/l	0.00200	0.00055	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Zinc, Total	0.08200		mg/l	0.00500	0.00341	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
Total Hardness (by calculation) - Mansfield Lab											
Hardness	60.63		mg/l	0.5400	NA	1	05/23/25 08:11	05/23/25 13:47	EPA 3005A	3,200.8	BLR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.003	J	mg/l	0.010	0.003	1		05/23/25 13:47	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0037		mg/l	0.0010	0.0002	1	05/23/25 08:11	05/23/25 12:13	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0041		mg/l	0.0020	0.0006	1	05/23/25 08:11	05/23/25 12:13	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-04
Client ID: DUP-052225
Sample Location: JENKINTOWN, PA
Date Collected: 05/22/25 00:00
Date Received: 05/22/25
Field Prep: Refer to COC

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	0.4384		mg/l	0.01000	0.00327	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Chromium, Total	0.00794		mg/l	0.00100	0.00017	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Copper, Total	0.03122		mg/l	0.00100	0.00038	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Iron, Total	0.6577		mg/l	0.05000	0.01910	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Lead, Total	0.00620		mg/l	0.00100	0.00034	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00619		mg/l	0.00200	0.00055	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Zinc, Total	0.07745		mg/l	0.00500	0.00341	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
Total Hardness (by calculation) - Mansfield Lab											
Hardness	56.52		mg/l	0.5400	NA	1	05/23/25 08:11	05/23/25 14:11	EPA 3005A	3,200.8	BLR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.007	J	mg/l	0.010	0.003	1		05/23/25 14:11	NA	107,-	
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.0038		mg/l	0.0010	0.0002	1	05/23/25 08:11	05/23/25 13:23	EPA 3005A	3,200.8	BLR
Nickel, Dissolved	0.0042		mg/l	0.0020	0.0006	1	05/23/25 08:11	05/23/25 13:23	EPA 3005A	3,200.8	BLR

Project Name: SPS TECHNOLOGIES **Lab Number:** L2532334

Project Number: 658978 **Report Date:** 05/27/25

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): 01-04 Batch: WG2070312-1										
Aluminum, Total	ND		mg/l	0.01000	0.00327	1	05/23/25 08:11	05/23/25 13:09	3,200.8	BLR
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/23/25 08:11	05/23/25 13:09	3,200.8	BLR
Copper, Total	ND		mg/l	0.00100	0.00038	1	05/23/25 08:11	05/23/25 13:09	3,200.8	BLR
Iron, Total	ND		mg/l	0.05000	0.01910	1	05/23/25 08:11	05/23/25 13:09	3,200.8	BLR
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/23/25 08:11	05/23/25 13:09	3,200.8	BLR
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/23/25 08:11	05/23/25 13:09	3,200.8	BLR
Zinc, Total	ND		mg/l	0.00500	0.00341	1	05/23/25 08:11	05/23/25 13:09	3,200.8	BLR

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): 01-04 Batch: WG2070312-1										
Hardness	ND		mg/l	0.5400	NA	1	05/23/25 08:11	05/23/25 13:09	3,200.8	BLR

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): 01-04 Batch: WG2070313-1										
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	05/23/25 08:11	05/23/25 13:05	3,200.8	BLR
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	05/23/25 08:11	05/23/25 13:05	3,200.8	BLR

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG2070312-2								
Aluminum, Total	106		-		85-115	-		
Chromium, Total	100		-		85-115	-		
Copper, Total	104		-		85-115	-		
Iron, Total	106		-		85-115	-		
Lead, Total	98		-		85-115	-		
Nickel, Total	102		-		85-115	-		
Zinc, Total	101		-		85-115	-		
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-04 Batch: WG2070312-2								
Hardness	112		-		85-115	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG2070313-2								
Chromium, Dissolved	100		-		85-115	-		
Nickel, Dissolved	104		-		85-115	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

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): 01-04 QC Batch ID: WG2070312-3 WG2070312-4 QC Sample: L2532334-02 Client ID: OF006-052225												
Aluminum, Total	0.04659	2	2.206	108		2.062	101		70-130	7		20
Chromium, Total	0.00037J	0.2	0.2126	106		0.1862	93		70-130	13		20
Copper, Total	0.00351	0.25	0.2662	105		0.2454	97		70-130	8		20
Iron, Total	0.1314	1	1.326	119		1.154	102		70-130	14		20
Lead, Total	0.00058J	0.53	0.5529	104		0.5164	97		70-130	7		20
Nickel, Total	0.00099J	0.5	0.5168	103		0.4790	96		70-130	8		20
Zinc, Total	0.01321	0.5	0.5376	105		0.4894	95		70-130	9		20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG2070312-3 WG2070312-4 QC Sample: L2532334-02 Client ID: OF006-052225												
Hardness	143.5	66.2	227.8	127		207.1	96		70-130	10		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG2070313-3 WG2070313-4 QC Sample: L2532334-02 Client ID: OF006-052225												
Chromium, Dissolved	0.0002J	0.2	0.2012	101		0.2038	102		70-130	1		20
Nickel, Dissolved	0.0009J	0.5	0.4996	100		0.5313	106		70-130	6		20

INORGANICS
&
MISCELLANEOUS

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-01
Client ID: OF002-052225
Sample Location: JENKINTOWN, PA
Sample Depth:
Matrix: Water

Date Collected: 05/22/25 10:34
Date Received: 05/22/25
Field Prep: Refer to COC

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	-	05/23/25 09:16	121,2540D	CVN
Cyanide, Total	0.007		mg/l	0.005	0.001	1	05/24/25 08:40	05/25/25 10:53	121,4500CN-CE	SRM
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/23/25 06:41	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	1.2		mg/l	0.10	0.046	1	-	05/23/25 07:24	44,353.2	KAF
Chemical Oxygen Demand	58.		mg/l	20	6.0	1	05/23/25 10:45	05/23/25 14:30	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/23/25 09:06	05/23/25 13:36	140,1664B	TPR
Chromium, Hexavalent	0.007	J	mg/l	0.010	0.003	1	05/23/25 06:15	05/23/25 06:30	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-02
Client ID: OF006-052225
Sample Location: JENKINTOWN, PA

Date Collected: 05/22/25 08:40
Date Received: 05/22/25
Field Prep: Refer to COC

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	-	05/23/25 09:16	121,2540D	CVN
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/24/25 08:40	05/25/25 10:54	121,4500CN-CE	SRM
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/23/25 06:41	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	2.6		mg/l	0.10	0.046	1	-	05/23/25 07:25	44,353.2	KAF
Chemical Oxygen Demand	ND		mg/l	20	6.0	1	05/23/25 10:45	05/23/25 14:30	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/23/25 09:06	05/23/25 10:34	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/23/25 06:15	05/23/25 06:31	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-03
Client ID: OF009-052225
Sample Location: JENKINTOWN, PA

Date Collected: 05/22/25 07:40
Date Received: 05/22/25
Field Prep: Refer to COC

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	13.		mg/l	5.0	NA	1	-	05/23/25 09:16	121,2540D	CVN
Cyanide, Total	0.039		mg/l	0.005	0.001	1	05/24/25 08:40	05/25/25 10:58	121,4500CN-CE	SRM
Cyanide, Free	0.036		mg/l	0.010	0.003	1	-	05/23/25 06:41	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	0.56		mg/l	0.10	0.046	1	-	05/23/25 07:28	44,353.2	KAF
Chemical Oxygen Demand	27.		mg/l	20	6.0	1	05/23/25 10:45	05/23/25 14:30	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/23/25 09:06	05/23/25 13:37	140,1664B	TPR
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	05/23/25 06:15	05/23/25 06:34	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2532334-04
Client ID: DUP-052225
Sample Location: JENKINTOWN, PA

Date Collected: 05/22/25 00:00
Date Received: 05/22/25
Field Prep: Refer to COC

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	7.4		mg/l	5.0	NA	1	-	05/23/25 09:16	121,2540D	CVN
Cyanide, Total	0.041		mg/l	0.005	0.001	1	05/24/25 08:40	05/25/25 11:01	121,4500CN-CE	SRM
Cyanide, Free	0.036		mg/l	0.010	0.003	1	-	05/23/25 06:41	121,4500CN-E(M)	KAF
Nitrogen, Nitrate/Nitrite	0.60		mg/l	0.10	0.046	1	-	05/23/25 07:29	44,353.2	KAF
Chemical Oxygen Demand	18.	J	mg/l	20	6.0	1	05/23/25 10:45	05/23/25 14:30	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/23/25 09:06	05/23/25 13:38	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/23/25 06:15	05/23/25 06:35	121,3500CR-B	DMO

Project Name: SPS TECHNOLOGIES
Project Number: 658978
Lab Number: L2532334
Report Date: 05/27/25

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): 01-04 Batch: WG2070252-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	05/23/25 03:30	44,353.2	KAF
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG2070286-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/23/25 06:15	05/23/25 06:28	121,3500CR-B	DMO
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG2070295-1										
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	05/23/25 06:41	121,4500CN-E(M)	KAF
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG2070385-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	05/23/25 09:16	121,2540D	CVN
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG2070400-1										
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	05/23/25 09:06	05/23/25 10:37	140,1664B	TPR
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG2070439-1										
Chemical Oxygen Demand	ND		mg/l	20	6.0	1	05/23/25 10:45	05/23/25 14:30	44,410.4	CVN
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG2070737-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/24/25 08:40	05/25/25 10:39	121,4500CN-CE	SRM

Lab Control Sample Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2070252-2								
Nitrogen, Nitrate/Nitrite	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2070286-2								
Chromium, Hexavalent	104		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2070295-2								
Cyanide, Free	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2070385-2								
Solids, Total Suspended	90		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2070400-2								
Oil & Grease, Hem-Grav	104		-		78-114	-		18
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2070439-2								
Chemical Oxygen Demand	95		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2070737-2								
Cyanide, Total	94		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070252-4 QC Sample: L2532162-01 Client ID: MS Sample												
Nitrogen, Nitrate/Nitrite	2.1	4	6.0	98		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070252-6 QC Sample: L2532334-02 Client ID: OF006-052225												
Nitrogen, Nitrate/Nitrite	2.6	4	6.3	92		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070286-4 WG2070286-5 QC Sample: L2532334-02 Client ID: OF006-052225												
Chromium, Hexavalent	ND	0.1	0.105	105		0.105	105		85-115	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070295-4 WG2070295-5 QC Sample: L2532334-02 Client ID: OF006-052225												
Cyanide, Free	ND	0.25	0.235	94		0.229	92		80-120	3		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070400-4 WG2070400-5 QC Sample: L2532334-02 Client ID: OF006-052225												
Oil & Grease, Hem-Grav	ND	39.2	37	94		39	99		78-114	5		18
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070439-3 QC Sample: L2532334-02 Client ID: OF006-052225												
Chemical Oxygen Demand	ND	238	240	102		-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070737-4 WG2070737-5 QC Sample: L2532334-02 Client ID: OF006-052225												
Cyanide, Total	ND	0.2	0.196	98		0.189	94		90-110	4		30

Lab Duplicate Analysis

Batch Quality Control

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070252-3 QC Sample: L2532162-01 Client ID: DUP Sample						
Nitrogen, Nitrate/Nitrite	2.1	2.1	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070252-5 QC Sample: L2532334-02 Client ID: OF006-052225						
Nitrogen, Nitrate/Nitrite	2.6	2.6	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070286-3 QC Sample: L2532334-02 Client ID: OF006-052225						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070295-3 QC Sample: L2532334-02 Client ID: OF006-052225						
Cyanide, Free	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070385-3 QC Sample: L2532334-02 Client ID: OF006-052225						
Solids, Total Suspended	ND	ND	mg/l	NC		32
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070400-3 QC Sample: L2532334-02 Client ID: OF006-052225						
Oil & Grease, Hem-Grav	ND	ND	mg/l	NC		18
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070439-4 QC Sample: L2532334-02 Client ID: OF006-052225						
Chemical Oxygen Demand	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG2070737-6 QC Sample: L2532334-02 Client ID: OF006-052225						
Cyanide, Total	ND	ND	mg/l	NC		30

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2532334-01A	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-01B	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-01C	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-01D	Plastic 250ml NaOH preserved	A	>12	>12	2.7	Y	Absent		TCN-4500(14)
L2532334-01E	Plastic 250ml H2SO4 preserved	A	<2	<2	2.7	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2532334-01F	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		CR-2008S(180),NI-2008S(180)
L2532334-01G	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		AL-2008T(180),NI-2008T(180),ZN-2008T(180),HARDT-2008(180),CU-2008T(180),FE-2008T(180),CR-2008T(180),PB-2008T(180)
L2532334-01H	Plastic 950ml unpreserved	A	7	7	2.7	Y	Absent		TSS-2540(7)
L2532334-01J	Plastic 950ml unpreserved	A	7	7	2.7	Y	Absent		HEXCR-3500(1),FCN(1)
L2532334-01K	Amber 1L HCl preserved	A	NA		2.7	Y	Absent		OG-1664(28)
L2532334-01L	Amber 1L HCl preserved	A	NA		2.7	Y	Absent		OG-1664(28)
L2532334-02A	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-02A1	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-02A2	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-02B	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-02B1	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-02B2	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-02C	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-02C1	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)

*Values in parentheses indicate holding time in days

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2532334-02C2	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-02D	Plastic 250ml NaOH preserved	A	>12	>12	2.7	Y	Absent		TCN-4500(14)
L2532334-02D1	Plastic 250ml NaOH preserved	B	>12	>12	3.8	Y	Absent		TCN-4500(14)
L2532334-02D2	Plastic 250ml NaOH preserved	B	>12	>12	3.8	Y	Absent		TCN-4500(14)
L2532334-02E	Plastic 250ml H2SO4 preserved	A	<2	<2	2.7	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2532334-02E1	Plastic 250ml H2SO4 preserved	B	<2	<2	3.8	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2532334-02E2	Plastic 250ml H2SO4 preserved	B	<2	<2	3.8	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2532334-02F	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		CR-2008S(180),NI-2008S(180)
L2532334-02F1	Plastic 250ml HNO3 preserved	B	<2	<2	3.8	Y	Absent		CR-2008S(180),NI-2008S(180)
L2532334-02F2	Plastic 250ml HNO3 preserved	B	<2	<2	3.8	Y	Absent		CR-2008S(180),NI-2008S(180)
L2532334-02G	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		AL-2008T(180),NI-2008T(180),ZN-2008T(180),HARDT-2008(180),CU-2008T(180),FE-2008T(180),CR-2008T(180),PB-2008T(180)
L2532334-02G1	Plastic 250ml HNO3 preserved	B	<2	<2	3.8	Y	Absent		AL-2008T(180),NI-2008T(180),ZN-2008T(180),HARDT-2008(180),CU-2008T(180),FE-2008T(180),CR-2008T(180),PB-2008T(180)
L2532334-02G2	Plastic 250ml HNO3 preserved	B	<2	<2	3.8	Y	Absent		AL-2008T(180),NI-2008T(180),ZN-2008T(180),HARDT-2008(180),CU-2008T(180),FE-2008T(180),CR-2008T(180),PB-2008T(180)
L2532334-02H	Plastic 950ml unpreserved	A	7	7	2.7	Y	Absent		TSS-2540(7)
L2532334-02H1	Plastic 950ml unpreserved	B	7	7	3.8	Y	Absent		TSS-2540(7)
L2532334-02H2	Plastic 950ml unpreserved	B	7	7	3.8	Y	Absent		TSS-2540(7)
L2532334-02J	Plastic 950ml unpreserved	A	7	7	2.7	Y	Absent		HEXCR-3500(1),FCN(1)
L2532334-02J1	Plastic 950ml unpreserved	B	7	7	3.8	Y	Absent		HEXCR-3500(1),FCN(1)
L2532334-02J2	Plastic 950ml unpreserved	B	7	7	3.8	Y	Absent		HEXCR-3500(1),FCN(1)
L2532334-02K	Amber 1L HCl preserved	A	NA		2.7	Y	Absent		OG-1664(28)
L2532334-02K1	Amber 1L HCl preserved	B	NA		3.8	Y	Absent		OG-1664(28)
L2532334-02K2	Amber 1L HCl preserved	B	NA		3.8	Y	Absent		OG-1664(28)
L2532334-02L	Amber 1L HCl preserved	A	NA		2.7	Y	Absent		OG-1664(28)
L2532334-02L1	Amber 1L HCl preserved	B	NA		3.8	Y	Absent		OG-1664(28)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2532334-02L2	Amber 1L HCl preserved	B	NA		3.8	Y	Absent		OG-1664(28)
L2532334-03A	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-03B	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-03C	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-03D	Plastic 250ml NaOH preserved	C	>12	>12	3.6	Y	Absent		TCN-4500(14)
L2532334-03E	Plastic 250ml H2SO4 preserved	C	<2	<2	3.6	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2532334-03F	Plastic 250ml HNO3 preserved	C	<2	<2	3.6	Y	Absent		CR-2008S(180),NI-2008S(180)
L2532334-03G	Plastic 250ml HNO3 preserved	C	<2	<2	3.6	Y	Absent		AL-2008T(180),NI-2008T(180),ZN-2008T(180),HARDT-2008(180),CU-2008T(180),FE-2008T(180),PB-2008T(180),CR-2008T(180)
L2532334-03H	Plastic 950ml unpreserved	C	7	7	3.6	Y	Absent		TSS-2540(7)
L2532334-03J	Plastic 950ml unpreserved	C	7	7	3.6	Y	Absent		HEXCR-3500(1),FCN(1)
L2532334-03K	Amber 1L HCl preserved	C	NA		3.6	Y	Absent		OG-1664(28)
L2532334-03L	Amber 1L HCl preserved	C	NA		3.6	Y	Absent		OG-1664(28)
L2532334-04A	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-04B	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-04C	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-04D	Plastic 250ml NaOH preserved	C	>12	>12	3.6	Y	Absent		TCN-4500(14)
L2532334-04E	Plastic 250ml H2SO4 preserved	C	<2	<2	3.6	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2532334-04F	Plastic 250ml HNO3 preserved	C	<2	<2	3.6	Y	Absent		CR-2008S(180),NI-2008S(180)
L2532334-04G	Plastic 250ml HNO3 preserved	C	<2	<2	3.6	Y	Absent		AL-2008T(180),NI-2008T(180),ZN-2008T(180),CU-2008T(180),HARDT-2008(180),FE-2008T(180),CR-2008T(180),PB-2008T(180)
L2532334-04H	Plastic 950ml unpreserved	C	7	7	3.6	Y	Absent		TSS-2540(7)
L2532334-04J	Plastic 950ml unpreserved	C	7	7	3.6	Y	Absent		HEXCR-3500(1),FCN(1)
L2532334-04K	Amber 1L HCl preserved	C	NA		3.6	Y	Absent		OG-1664(28)
L2532334-04L	Amber 1L HCl preserved	C	NA		3.6	Y	Absent		OG-1664(28)
L2532334-05A	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)
L2532334-05B	Vial Na2S2O3 preserved	B	NA		3.8	Y	Absent		624.1-PPM(7)

*Values in parentheses indicate holding time in days

Project Name: SPS TECHNOLOGIES
Project Number: 658978

Lab Number: L2532334
Report Date: 05/27/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2532334-05C	Vial Na2S2O3 preserved	C	NA		3.6	Y	Absent		624.1-PPM(7)
L2532334-05D	Vial Na2S2O3 preserved	C	NA		3.6	Y	Absent		624.1-PPM(7)
L2532334-05E	Vial Na2S2O3 preserved	C	NA		3.6	Y	Absent		624.1-PPM(7)
L2532334-05F	Vial Na2S2O3 preserved	C	NA		3.6	Y	Absent		624.1-PPM(7)
L2532334-05G	Vial Na2S2O3 preserved	C	NA		3.6	Y	Absent		624.1-PPM(7)
L2532334-05H	Vial Na2S2O3 preserved	C	NA		3.6	Y	Absent		624.1-PPM(7)
L2532334-05J	Vial Na2S2O3 preserved	C	NA		3.6	Y	Absent		624.1-PPM(7)
L2532334-05K	Vial Na2S2O3 preserved	C	NA		3.6	Y	Absent		624.1-PPM(7)

*Values in parentheses indicate holding time in days

Project Name:	SPS TECHNOLOGIES	**Lab Number:**	L2532334
Project Number:	658978	**Report Date:**	05/27/25

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

Project Name:	SPS TECHNOLOGIES	**Lab Number:**	L2532334
Project Number:	658978	**Report Date:**	05/27/25

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

Project Name:	SPS TECHNOLOGIES	**Lab Number:**	L2532334
Project Number:	658978	**Report Date:**	05/27/25

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 **Lab Number:** L2532334

Project Number: 658978 **Report Date:** 05/27/25

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 it's 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

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.

L2532334
TRC

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 5/23/25

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

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

Report Information Data Deliverables

- ☐ FAX
- ☒ EMAIL
- ☐ ADEx
- ☐ Add'l Deliverables

Client Information

Client: TRC Environmental Corporation
Address: 1617 John F. Kennedy Blvd.
Suite 510, Philadelphia, PA 19103
Phone: 267-679-6728
Fax: 215-563-2339
Email: JActon@trccompanies.com

☐ These samples have been Previously analyzed by Alpha

Project Information

Project Name: SPS Technologies
Project Location: Jenkintown, PA
Project #: 658978
Project Manager: Julie Acton
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ Rush (ONLY IF PRE-APPROVED)

Due Date: Time: 1-Day

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
PA	

Other Project Specific Requirements/Comments/Detection Limits:

Attorney-Client Privileged & Confidential
All VOAs in 1 Cooler

Dissolved Metals - Field Filtered

ANALYSIS

SAMPLE HANDLING
Filtration
☒ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Oil and Grease E1664B	Free Cyanide SM4500CN-E(M)	Total Cyanide SM4500CN-CE	Speciated Hex Chrome SM3500-CrB	Total Chromium, Nickel E200.8	Dissolved Chromium, Nickel E200.8	Total Al, Fe, Pb, Zn, Cu E200.8	Chemical Oxygn Demand E410.4	MEK, Toluene E624.1	Nitrate-Nitrite as N E353.2	Total Hardness E200.8	Total Suspendned Solids SM 2540 D	Sample Specific Comments	TOTAL # BOTTLES
32334-01	OF002 - 052225	5/22/25	1034	SW	TT	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		11
	~~OF004~~			SW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	TT	
-02	OF006 - 052225	5/22/25	0840	SW	TT	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	perform MS/MSD	33
-03	OF009 - 052225	5/22/25	0740	SW	TT	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		11
-04	DUP- 052225	5/22/25	0000	SW	TT	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		11
-05	TRIP BLANK- 052225	5/22/25	—	W	TT	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐		2
	~~SF-~~			SW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	TT	
	~~SF-~~			SW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	TT	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

Container Type	A	P	P	P	P	P	P	P	V	P	P	P	
Preservative	B	A	F	A	C	A	C	-	H	-	-	-	

Relinquished By:	Date/Time	Received By:	Date/Time
PACE	5/22/25 1330	PACE	5/22/25 1330
	5.22 1835		5.22 1835
Anthony Green	5/23/25 0400	Anthony Green	MAY 22 2025 2330
			5/23/25 0400
			5/23 0400

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 Payment Terms.

FORM NO: 01-01(R4)
(rev. 5-JAN-12)