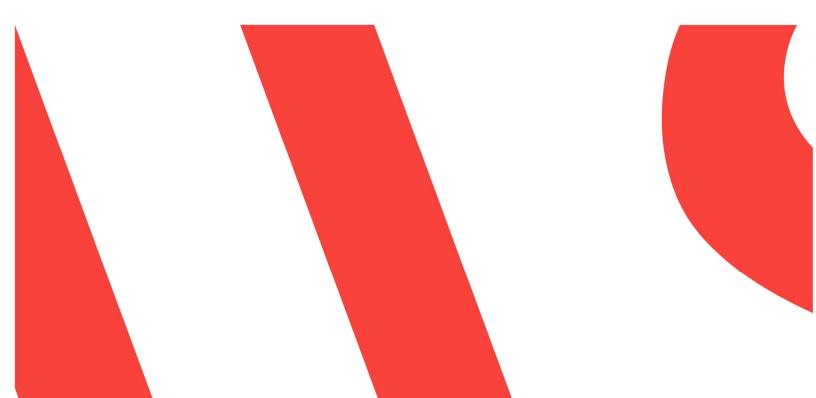


## SPS Technologies Abington PA March 6, 2025 Daily Surface Water and Outfall Sampling Results Report

SPS Technologies

2025-03-11



#### **Table of Contents**

1.	Executive Summary	2					
2.	Introduction	3					
3.	Site Background	3					
4.	Tookany Creek Offsite Investigation	3					
4.1	Sampling Locations	3					
4.2	Surface Water and Outfall Sampling Field Methodology	3					
4.3	Sample Analysis	4					
4.4	Surface Water Sampling Daily Results	4					
4.5	Outfall Sampling Daily Results						
5.	Daily Quality Assurance/Quality Control and Management	5					
5.1	Field Quality Assurance/Quality Control Requirements	5					
5.2	Analytical QA/QC Samples	5					
5.3	Data Evaluation						
6.	References	5					
TABLE	S						
Table 1	Daily Surface Water Sampling Results						
Table 2	Daily Outfall Sampling Results						
FIGURE	ES						
Figure 1	Surface Water and Outfall Sample Locations						
Figure 2	2 Downstream Surface Water Sample Locations						
Append	lices						
Append	ix A Daily Surface Water Sampling Log						
Append	ix B Data Validation Report						
Append	ix C Laboratory Analytical Report						

#### 1. Executive Summary

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

Surface Water Samples:
------------------------

		Upstream Offsite SW Sample Location 1	Upstream Offsite SW Sample Location 2	SW Sample Location 3	High School Road Sample Location	High School Road Sample Location Duplicate	Downstream SW Sample Location
Parameter	Units	Result	Result	Result	Result	Result	Result
Toluene	mg/L	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	mg/L	ND	ND	ND	ND	ND	ND
Chromium, Trivalent	mg/L	ND	ND	ND	ND	ND	ND
Chromium, Hexavalent	mg/L	ND	ND	ND	ND	ND	0.004
Total Cyanide	mg/L	0.002	0.002	0.002	0.002	0.002	0.002
Free Cyanide	mg/L	ND	ND	0.005	0.005	0.004	0.006
Oil & Grease	mg/L	ND	ND	ND	ND	ND	ND
Total Chromium	mg/L	0.00047	0.00042	0.00049	0.00071	0.0008	0.00115
Total Nickel	mg/L	0.00106	0.00815	0.00162	0.00256	0.00258	0.00162
Dissolved Chromium	mg/L	0.0004	0.0004	0.0003	0.0005	0.0005	0.0006
Dissolved Nickel	mg/L	0.0011	0.0083	0.0017	0.0025	0.0026	0.0015
Hardness	mg/L	219	223.3	208.7	158.5	161.8	90.11
рН	SU	8.14	7.75	7.62	7.24	7.24	5.94

#### **Outfall Samples:**

		Outfall 002	Outfall 006
Parameter	Units	Result	Result
Toluene	mg/L	ND	ND
2-Butanone (MEK)	mg/L	ND	ND
Chromium, Trivalent	mg/L	0.006	ND
Chromium, Hexavalent	mg/L	0.014	ND
Total Cyanide	mg/L	0.029	ND
Free Cyanide	mg/L	0.007	ND
Oil & Grease	mg/L	ND	ND
Total Suspended Solids	mg/L	ND	ND
Nitrate/Nitrite as Nitrogen	mg/L	2.2	4.2
Chemical Oxygen Demand	mg/L	57	28
Total Aluminum	mg/L	0.06665	0.1286
Total Chromium	mg/L	0.02075	0.00054
Total Copper	mg/L	0.0098	0.0039
Total Iron	mg/L	2.002	0.4369
Total Lead	mg/L	0.00121	0.00067
Total Nickel	mg/L	0.01997	0.00145

Total Zinc	mg/L	0.1556	0.04159
Dissolved Chromium	mg/L	0.021	0.0003
Dissolved Nickel	mg/L	0.0206	0.0017
Hardness	mg/L	582.2	222.7
рН	SU	6.65	7.24

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

#### 2. Introduction

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

#### 3. Site Background

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

#### 4. Tookany Creek Offsite Investigation

#### 4.1 Sampling Locations

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

#### 4.2 Surface Water and Outfall Sampling Field Methodology

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

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

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

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

#### 4.3 Sample Analysis

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

#### 4.4 Surface Water Sampling Daily Results

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

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

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

#### 4.5 Outfall Sampling Daily Results

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

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

- Total nickel
- Total zinc
- Dissolved chromium
- Dissolved nickel
- Hardness

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

#### 5. Daily Quality Assurance/Quality Control and Management

#### 5.1 Field Quality Assurance/Quality Control Requirements

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

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

#### 5.2 Analytical QA/QC Samples

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

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

#### 5.3 Data Evaluation

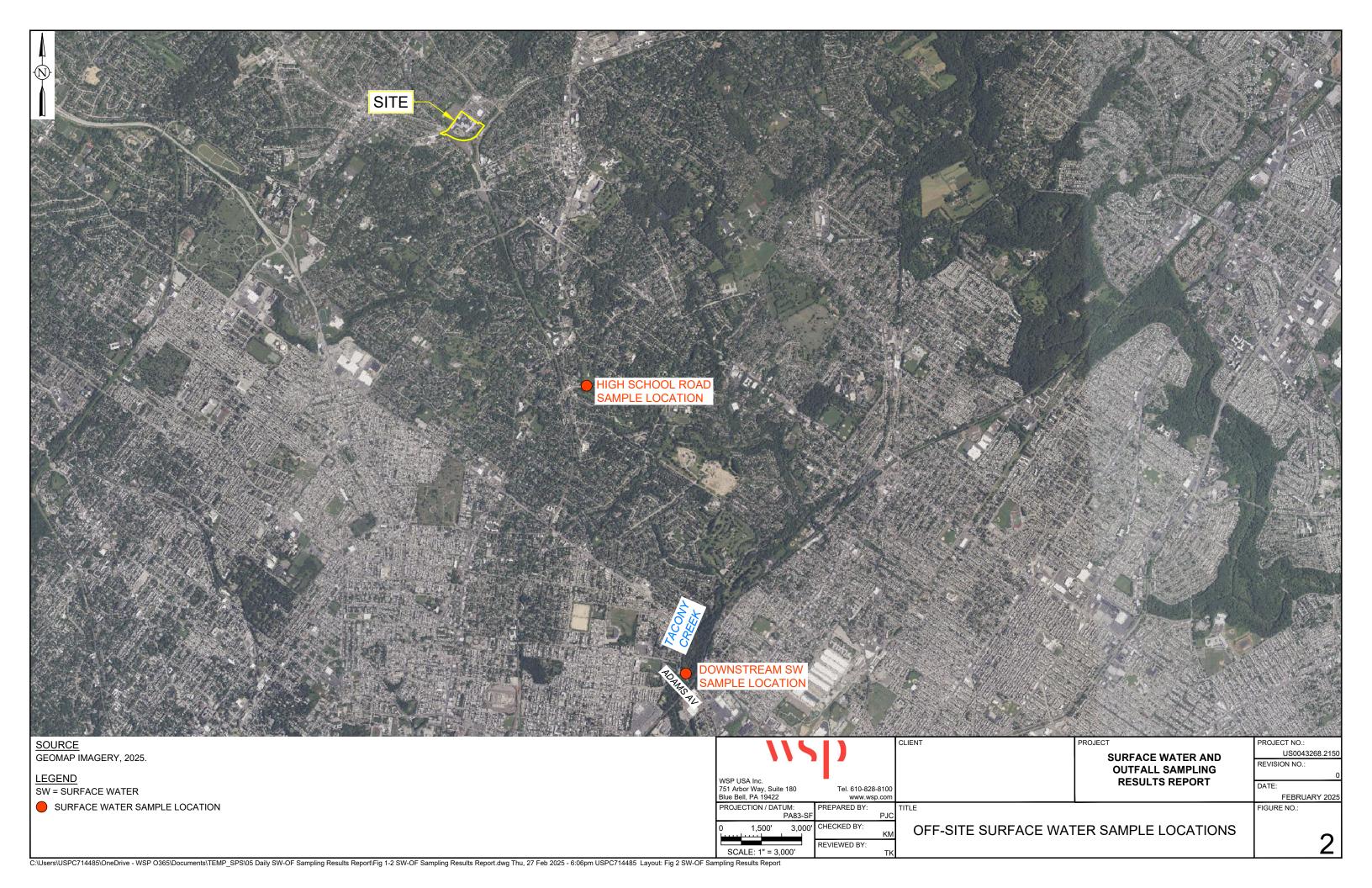
The reliability of the analytical data were evaluated to assess its suitability for use in the monitoring. In particular, the data's precision, accuracy, and sensitivity were evaluated based on field sampling documentation, adherence to sample holding times, and analysis of the QC samples (duplicates,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

#### 6. References

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

#### FIGURES & TABLES & APPENDICES





# Table 1Surface Water Analytical ResultsDaily Surface Water Sampling Results ReportSPS TechnologiesJenkintown, Pennsylvania

		Upstream (	Offsite SW	/ Sample	Upstream C	Offsite SW	V Sample	SV	V Sample		High Scho	ol Road	Sample	High Scho	ol Road	Sample	Downstre	am SW S	Sample
Sample Location		L	ocation 1		Location 2		Lo	ocation 3		Location			Location Duplicate			Location			
Field Sample ID		SV	/2_030625	5	SW1_030625			SW3_030625			SW4_030625			FDGW_030625			SW5_030625		
Lab Sample ID		L2	512807-04	ŀ	L2512807-05			L2512807-03			L2512807-02			L25	512807-06	6	L2512807-01		
	Sampling Date		3/6/2025		3	8/6/2025		3	8/6/2025		3	/6/2025		3	/6/2025		(1)	8/6/2025	
	Matrix		Water			Water			Water			Water			Water			Water	
Parameter	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Volatile Organic Comp	ounds									-					-				
Toluene	mg/L	ND		0.001	ND		0.001	ND		0.001	ND		0.001	ND		0.001	ND		0.001
2-Butanone (MEK)	mg/L	ND		0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01
General Chemistry			-			-				-					•			·	
Chromium, Trivalent	mg/L	ND		0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01
Chromium, Hexavalent	mg/L	ND		0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01	0.004	J	0.01
Total Cyanide	mg/L	0.002	J	0.005	0.002	J	0.005	0.002	J	0.005	0.002	J	0.005	0.002	J	0.005	0.002	J	0.005
Free Cyanide	mg/L	ND		0.01	ND		0.01	0.005	J	0.01	0.005	J	0.01	0.004	J	0.01	0.006	J	0.01
Oil & Grease	mg/L	ND		4	ND		4	ND		4.4	ND		4.4	ND		4.4	ND		4
Total Metals																			
Total Chromium	mg/L	0.00047	J	0.001	0.00042	J	0.001	0.00049	J	0.001	0.00071	J	0.001	0.0008	J	0.001	0.00115		0.001
Total Nickel	mg/L	0.00106	J	0.002	0.00815		0.002	0.00162	J	0.002	0.00256		0.002	0.00258		0.002	0.00162	J	0.002
Dissolved Metals										-									
Dissolved Chromium	mg/L	0.0004	J	0.001	0.0004	J	0.001	0.0003	J	0.001	0.0005	J	0.001	0.0005	J	0.001	0.0006	J	0.001
Dissolved Nickel	mg/L	0.0011	J	0.002	0.0083		0.002	0.0017	J	0.002	0.0025		0.002	0.0026		0.002	0.0015	J	0.002
Total Hardness																			
Hardness	mg/L	219		0.54	223.3		0.54	208.7		0.54	158.5		0.54	161.8		0.54	90.11		0.54
Field Parameters																			
pH <sup>1</sup>	SU	8.14			7.75			7.62			7.24			7.24			5.94		

#### Notes:

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

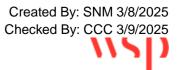
2.) Field duplicate sample FDSW\_030625 was collected from the High School Road SW4 sampling location.

#### Abbreviations:

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

### Qualifiers:

J - Estimated Result



# Table 2Outfall Analytical ResultsDaily Surface Water Sampling Results ReportSPS TechnologiesJenkintown, Pennsylvania

Sample	Location	O	utfall 002		Outfall 006				
Field S	Sample ID	OF0	02_030625		OF006_030625				
Lab S	Sample ID	L25	513323-01		L2513323-02				
Samp	oling Date	3	6/2025		3	/6/2025			
	Matrix		Water			Water			
Parameter	Units	Result	Q	RL	Result	Q	RL		
Volatile Organic Compounds									
Toluene	mg/L	ND		0.001	ND		0.001		
2-Butanone (MEK)	mg/L	ND		0.01	ND		0.01		
General Chemistry	· · ·								
Chromium, Trivalent	mg/L	0.006	J	0.01	ND		0.01		
Chromium, Hexavalent	mg/L	0.014		0.01	ND		0.01		
Total Cyanide	mg/L	0.029		0.005	ND		0.005		
Free Cyanide	mg/L	0.007	J	0.01	ND		0.01		
Oil & Grease	mg/L	ND		4	ND		4		
Total Suspended Solids	mg/L	ND		5	ND		5		
Nitrate/Nitrite as Nitrogen	mg/L	2.2		0.1	4.2		0.1		
Chemical Oxygen Demand	mg/L	57		20	28		20		
Total Metals									
Total Aluminum	mg/L	0.06665		0.01	0.1286		0.01		
Total Chromium	mg/L	0.02075		0.001	0.00054	J	0.001		
Total Copper	mg/L	0.0098		0.001	0.0039		0.001		
Total Iron	mg/L	2.002		0.05	0.4369		0.05		
Total Lead	mg/L	0.00121		0.001	0.00067	J	0.001		
Total Nickel	mg/L	0.01997		0.002	0.00145	J	0.002		
Total Zinc	mg/L	0.1556		0.005	0.04159		0.005		
Dissolved Metals									
Dissolved Chromium	mg/L	0.021		0.001	0.0003	J	0.001		
Dissolved Nickel	mg/L	0.0206		0.002	0.0017	J	0.002		
Total Hardness									
Hardness	mg/L	582.2		0.54	222.7		0.54		
Field Parameters									
pH <sup>1</sup>	SU	6.65			7.24				

#### Notes:

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

#### Abbreviations:

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

### Qualifiers:

J - Estimated Result

APPENDIX A – DAILY SURFACE WATER AND OUTFALL SAMPLING LOGS

Project Number: US0043268.2150

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SURFACE WATER											Project N	lumber: US	60043268.215	0
ATER	VOUTFALL SAMPL		EODWA											
Site:	SPS		FORMA	TION FOR	M									
Location.														
Project Number:	Abing to USU043263.7								tional Note			~		
Weler/ Who/Cart	Horiba 11 52 #	150						-50	2-0306	25	MSMS	() ()		
Meter Calibrated @ Flow Meter	: 8:00	S/N	: PVx	UMIAA		-					= FDGL	0306	25 collect	36
Flow Meter	FH950 Meter #	2012												
Sampling Date/Time Sampler(s):	e: SW 5 0 30() 5	3/6/25	:1820	4100:115	4			-34	2030	0625	Claci N	+ ofcr	Span	
Sampling Device:	VCI, KW	, ,	310:	00, 51	NE0-16	6253	10:55 31	6125,	543-03	50629	Pressiles	3161.	LS	
Sample Characteria	Telescope pole	* diper	ladio	2,	W2-0	30625	9 13:10	3/61	25, Sh		06-25 CT	13:4	5 316125	2 
Sample Characteris Analytical Parameter	tics: 51,5-030		1	No	doc	NY_03	0678 (					6.1		c)
a dan a di di nete	IS.			100 0			306231	Chai	i oho i	SW3.	030625	. Checi	NG 0201	Sheers
						N A CL	2116 20	UNGI	706 640	C 201	0306)	2 1-9	er he od	61
Weather Conditions	Clardy, 46°				7									ei S
	cavery, 10													
				1										
STATION /	STATION			TOTAL	SAMPLE	WATER		1	1	1				n
SAMPLE	DESCRIPTION	DATE	TIME	DEPTH	DEPTH	TEMP	SALINIT	Hq	COND	ORP	TURBIDITY	DO	VELOCITY	
ELE MONTON	(stream/lake/river)	mm/dd/yy	hr:min	inches	-	Celsius		SU	mS/cm	mV	NTU	mg/L	ft/sec	
SW5_030625	creek	03/06/25	10,00	15.5	7.75	10.37	0.13	5.94	0.378		1.8	4.86	1.70	
San	nple Characteristics:	()+4	No	oder		1 /		0,11	0.0	2.0	1.0	1.00	1.10	
SW1_030625	Creek	03/06/25		72	36	9.63	0.25	7:)4	0.528	+154	0.0	5.86	0.00	
	nple Characteristics:			oder		1.67	0.45	1.2	0. 123	e 723	0.0	2.00	0.96	
SW3 - 030625	Cheek	()3/06/25	12:55	24,4	12.2	111.75	0.27	17:60	0 808	1000		7		
P	ple Characteristics:	() Joics	No	cdar	Sheer		0.21	1.02	0,565	+533	0.0	6.35	1.5	
2MJ-03063	and the second s		13:10	8	4	11.13	0.27	-6.14	0.571	104	6			
	ple Characteristics:	(leca				11.13	0.11	-6.11	0.911	+126	0.0	6.22	0,25	
					g	11.1.5	10 20	770	0					
SW 1-030625		316125	17:45	18	7	11.65	0.36	7.75	0:740	+220	0.0	5.64	4.38	
Sam	ple Characteristics:	Clear	204	0900								0	30	
				đ										
												1		

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#### SURFACE WATER/OUTFALL SAMPLE FIELD INFORMATION FORM

Site:	sps							Additi	onal Notes	5:				
Location:	Jenkinstown,													
Project Number:	US0043268,213				_									
Meter/Type/Serial #:	Horiba U-52 #	S/N:	SV5R.	SJTG			_							
Meter Calibrated @:	0300		10100	1.0.1		1.3.3								
Flow Meter	FH950 Meter #	S/N:	191081	00431		1. 100								
Sampling Date/Time				and and		at here								_
Sampler(s):	RM, ZM	3		A							Sec. 1			_
Sampling Device:	Dipper ladie		1 .		and the		1							
Sample Characteris	tics: 0 + 00 L (190	1 Odoviess	Wishe	en pto (	0.0, 0F00	E (lear	Udoviess	WISH	een pic	0.0				_
Analytical Paramete	rs: OII & Grease,	(htm. 0x14	en demo	ind, futal :	suspended.	solids, Nit	vate-Nitvit	e, total	Aluminum	Total Co	pppr. total in	un, total	1 19ad, total 2	inc
	Free (Kanide, total (X	anide, total	hi(kel, te	otal (hrom)	ium, Disson	red Mi(KI+	e, D. Dolved	(hromi'un	n, MEK,	olvene,	total hardnes.	s, specia	te Hex Chro,	Milum
Weather Conditions:	1196 0 101101	The last				10000		2						-
	48° Partly (													- and the second second
		Const.	1					1						_
	STATION	1		TOTAL	SAMPLE	WATER	1			1				O
STATION /	DESCRIPTION	DATE	TIME	DEPTH	DEPTH	TEMP	SALINITY			000	TUDDIDITI	-		ZN03
SAMPLE	(stream/lake/river)			inches	DEFIN	Celsius		pH SU	COND	ORP	TURBIDITY	DO	VELOCITY	of mich
	(Succinnakeniver)			Inches		100 - T. N	ppt		mS/cm	mV	NTU	mg/L	ft/sec	
Cuttall 002	outfall	03106/25	10:45			10.31	1.9	6.65	3.58	235	0.0	10.15	600 m 4/w	intra
San	ple Characteristics:	PID: 0		. Mend	odeviess	avab (	sample	in: Un	chu o			10.00	11	
A C 11 A	. ( 1)	1			l			with	shart	1				· Report
Outfall 006	out tall	03/06/25	11:30		s it	10.77	0.4	7.24	0905	124	0.0	11.46	1.46	
Sam	ple Characteristics:				odovuess									
			, in the second s		1001 - 11	410-0-	SUMPE	WIT	n spile	1				
Sam	ple Characteristics:		1. 1997 I. 1. 1. 1977 - 1						1	1000	and a source	and the second		
Jan										1			2	
	Sec. 1	Section .			in the			late in	1 - alter alt	and the second	Sector and the sector		al second	
Sam	ple Characteristics:								No.	30.0			de la companya de la	
			1.0					-						
								- 2			- 1			
Sam	ple Characteristics:								Sec. S.	a la companya da companya d	2	1.05		
1.55		1.												
		Sec. 1				24								100
									and a second data and					
				200										

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Page 1 of 1

**APPENDIX B – DATA VALIDATION REPORT** 

Project Name: SPS 1	Fechnologies	5		<b>Project Number/Phase/Task:</b> US0043268.2150-US- SPS Client Support. Task 01							
<b>Reviewing Company</b>	: WSP USA		P	Project Manager: Tovah Karl							
Data Evaluator: Cano	dace Cocca			<b>Data Evaluation Date:</b> March 8, 2025, revised March 11, 2025							
Checked by: Julie Le	hrman		R	Review Date: March 11, 2025							
Laboratory: Pace An	alytical LLC		L	Lab SDG #: L2512807							
Matrix: 🛛 Aqueous	🗆 Soil	□ Sediment	□ Waste	e 🗆 Air	□ Other:						
Analytical Methods:	See Table E	3-1									
Sample Information:	See Table I	3-1									
Work Plan or QAPP:	SPS Techn	ologies Abington	PA Surfa	ice Water a	nd Outfall Sampling Plan (WSP, 2025)						

#### Data Validation Guidance:

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

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

CO	C and Sample Receipt	YES	NO	NA	COMMENT
a)	COC complete and correct?		$\boxtimes$		See Note 1
b)	COC documents release of custody (signed and dated)?		$\boxtimes$		See Note 2
c)	Field QC types provided (note types)?	$\boxtimes$			TB, FB
d)	Did the cooler contents match the COC?	$\boxtimes$			
e)	Were samples received in good condition?	$\boxtimes$			
f)	Were cooler temperatures within control limits?	$\boxtimes$			
Da	ta Package Information	YES	NO	NA	COMMENT
a)	Laboratory name and location documented?	$\boxtimes$			
b)	All samples on COC reported in data package?	$\boxtimes$			
c)	Requested analytical methods used?	$\boxtimes$			
d)	Requested sample preparation methods used?	$\boxtimes$			
e)	Requested analyte list reported?	$\boxtimes$			
f)	Requested units reported?	$\boxtimes$			
g)	Did the laboratory define the qualifiers used?	$\boxtimes$			
h)	Data package contains all information necessary to complete the data quality review?	$\boxtimes$			
An	alytical Assessment	YES	NO	NA	COMMENT
a)	Solid samples reported on a dry-weight basis?			$\boxtimes$	
b)	Were solid samples percent moisture criteria acceptable?			$\boxtimes$	
c)	Were sample dilutions noted?	$\boxtimes$			

An	alytical Assessment	YES	NO	NA	COMMENT
d)	Were detected concentrations less than the QL qualified by the laboratory?	$\boxtimes$			
e)	Were detected concentrations above the calibration range reported by the laboratory?		$\boxtimes$		
f)	Did the laboratory satisfy the requested sensitivity requirements?	$\boxtimes$			
La	boratory Case Narrative	YES	NO	NA	COMMENT
a)	Do the laboratory narrative or laboratory qualifiers indicate deficiencies?	$\boxtimes$			See Notes below
b)	Were all deficiencies noted in the laboratory qualifiers or narrative?	$\boxtimes$			
Sa	mple Preservation and Holding Time	YES	NO	NA	COMMENT
a)	Were samples properly preserved?	$\boxtimes$			
b)	Were holding times met for sample preparation?	$\boxtimes$			
c)	Were holding times met for sample analysis?	$\boxtimes$			
Bla	anks	YES	NO	NA	COMMENTS
a)	Were blanks analyzed at the appropriate frequency?	$\boxtimes$			
b)	Were any analytes detected in the associated preparation/method blank?		$\boxtimes$		
c)	Were any analytes detected in the associated trip blanks?		$\boxtimes$		
d)	Were any analytes detected in the associated field or equipment/rinsate blanks?			$\boxtimes$	
e)	Were any analytes detected in the associated storage blanks?			$\boxtimes$	
	rrogates or Deuterated Monitoring	YES	NO	NA	COMMENTS
a)	Were the correct surrogate compounds added to each sample?	$\boxtimes$			
b)	Were surrogate recoveries within control limits?	$\boxtimes$			
c)	If not, were samples analyzed at dilution factors of 20x or greater?			$\boxtimes$	
LC	S/LCSD	YES	NO	NA	COMMENTS
	Were LCS/LCSD reported at the appropriate frequency?	$\boxtimes$			
b)	Were proper analytes included in the LCS/LCSD?	$\boxtimes$			
c)	Were LCS/LCSD recoveries within control limits?	$\boxtimes$			
d)	Were RPD values within control limits (if LCSD was analyzed)?	$\boxtimes$			
MS	S/MSDs	YES	NO	NΔ	COMMENTS
	Were project-specific MS (and MSD) reported?				SW5_030625
,		<u>لا ـــــ</u>			

MS	S/MSDs	YES	NO	NA	COMMENTS
b)	Were proper analytes reported in the MS/MSD?	$\boxtimes$			
c)	Were project-specific MS/MSD recoveries within control limits?	$\boxtimes$			
d)	If not, were sample concentrations greater than 4x the spiking concentration?			$\boxtimes$	
e)	Was the RPD or absolute difference within control limits (if project-specific MSD analyzed)?	$\boxtimes$			
f)	Were project-specific post-digestion spikes analyzed?			$\boxtimes$	
g)	Were project-specific post-digestion spike recoveries within control limits?			$\boxtimes$	
Du	plicates	YES	NO	NA	COMMENTS
a)	Were project-specific laboratory duplicates reported?	$\boxtimes$			SW5_030625
b)	Was laboratory duplicate RPD or absolute difference criteria acceptable?	$\boxtimes$			
c)	Were field duplicates reported?	$\boxtimes$			FDSW_030625
d)	Was field duplicate RPD or absolute difference criteria acceptable?	$\boxtimes$			
IC	P Serial Dilution (SD)	YES	NO	NA	COMMENTS
a)	Was project-specific ICP SD data provided?			$\boxtimes$	
b)	Were project-specific ICP SD within acceptable criteria?			$\boxtimes$	
Ov	erall Evaluation	YES	NO	NA	COMMENTS
a)	Were there any other technical problems not previously addressed?		$\boxtimes$		
b)	Were data acceptable and usable, except where noted?	$\boxtimes$			

#### Comments/Notes:

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

- 1. The chain of custody and initial report listed sample names FDGW\_030625 and TBGW\_030625. These samples should have been named FDSW\_030625 and TBSW\_030625 to properly reflect the surface water matrix of the samples. A revised chain of custody was provided to the laboratory, and a revised laboratory report was received on March 10, 2025. There is no action other than to note.
- 2. The laboratory narrative noted that "The samples were logged in accordance with the chain of custody provided by the client at the time of pick up. The original chain of custody was misplaced during transit, and a copy from the initial pickup has been provided at the back of the report. The samples were in the continuous possession of Pace staff until delivered to the laboratory on 3/7/2025." As documented in the data package,

a chain of custody was provided and signed by WSP and the laboratory courier at 16:15 on 3/6/2025 when custody of the samples was initially transferred from WSP to Pace. The scanned copy of this chain of custody was used to log in the samples.

Following project practice, WSP placed custody seals on the coolers prior to giving them to the laboratory courier. The Sample Receipt and Container Information form included in the data package documents that the custody seals on coolers A, B, C, and D were intact. While the chain of custody was not signed to document transfer of custody from the Pace courier to the Pace laboratory staff, the presence of the cooler custody seals provides corroborating evidence that the samples were not compromised during shipment. There is no action other than to note.

Data Qualification: No qualifications.

					Analyses/Parameters									
						MEK and Toluene	Oil and Grease	Total Metals	Dissolved Metals	Total Hardness	Free Cyanide	Total Cyanide	Trivalent Chromium	Hexavalent Chromium
Laboratory			Lab		Collection						SM	SM	SM	SM
Job	Field Identification	Matrix	Identification	QC Samples	Date	E624.1	E1664B	200.8	200.8	200.8	4500CN-	4500C	3500	3500C
L2512807	SW5_030625	WS	L2512807-01	-	3/6/2025	X	Х	Х	Х	Х	Х	Х	Х	Х
L2512807	SW4_030625	WS	L2512807-02		3/6/2025	X	Х	Х	Х	Х	Х	Х	Х	Х
L2512807	SW3_030625	WS	L2512807-03	-	3/6/2025	Х	Х	Х	Х	Х	Х	Х	Х	Х
L2512807	SW2_030625	WS	L2512807-04	-	3/6/2025	X	Х	X	Х	Х	Х	Х	Х	Х
L2512807	SW1_030625	WS	L2512807-05		3/6/2025	Х	Х	Х	Х	Х	Х	Х	Х	Х
L2512807	FDSW_030625	WS	L2512807-06	FD (SW4_030625)	3/6/2025	X	Х	Х	Х	Х	Х	Х	Х	Х
L2512807	TBSW_030125	WQ	L2512807-07	TB	3/6/2025	X	-		-			-		

#### Notes:

1) Metal analyses were performed by Pace Analytical Mansfield Lab, all other parameters were performed at Pace Analytical Westborough Lab.

2) Total Metals include:chromium and nickel

3) Dissolved Metals include:chromium and nickel

#### Abbreviations:

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

#### Table B-2 Qualifier Summary Table

Laboratory Job	Sample Name	Analyte	New Result	New MDL	New RL	Qualifier	Reason
L2512807							
L2512807	All samples						Laboratory applied U-qualifiers indicating non-detect results and J-qualifiers indicating results below the reporting limit are retained unless other qualifications are indicated in this table. All other laboratory qualifiers are removed.

Abbreviations:

Qualifiers:

MDL: Method Detection Limit RL: Reporting Limit RPD: Relative Percent Difference SDG: Sample Delivery Group

Project Name: SPS Technologies	<b>Project Number/Phase/Task:</b> US0043268.2150-US- SPS Client Support. Task 01							
Reviewing Company: WSP USA	Project Manager: Tovah Karl							
Data Evaluator: Candace Cocca	<b>Data Evaluation Date:</b> March 8, 2025, revised March 11, 2025							
Checked by: Julie Lehrman	Review Date: March 11, 2025							
Laboratory: Pace Analytical LLC	Lab SDG #: L2513323							
Matrix: ⊠ Aqueous □ Soil □ Sediment □ Was	ste □ Air □ Other:							
Analytical Methods: See Table B-1								
Sample Information: See Table B-1								
Work Plan or QAPP: SPS Technologies Abington PA Surface Water and Outfall Sampling Plan (WSP, 2025)								
Data Validation Guidance:								

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

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

CO	C and Sample Receipt	YES	NO	NA	COMMENT
a)	COC complete and correct?	$\boxtimes$			
b)	COC documents release of custody (signed and dated)?	$\boxtimes$			See Note 1
c)	Field QC types provided (note types)?		$\boxtimes$		
d)	Did the cooler contents match the COC?	$\boxtimes$			
e)	Were samples received in good condition?	$\boxtimes$			
f)	Were cooler temperatures within control limits?	$\boxtimes$			
Dat	ta Package Information	YES	NO	NA	COMMENT
a)	Laboratory name and location documented?	$\boxtimes$			
b)	All samples on COC reported in data package?		$\boxtimes$		See Note 2
c)	Requested analytical methods used?	$\boxtimes$			
d)	Requested sample preparation methods used?	$\boxtimes$			
e)	Requested analyte list reported?	$\boxtimes$			
f)	Requested units reported?	$\boxtimes$			
g)	Did the laboratory define the qualifiers used?	$\boxtimes$			
h)	Data package contains all information necessary to complete the data quality review?	$\boxtimes$			
An	alytical Assessment	YES	NO	NA	COMMENT
a)	Solid samples reported on a dry-weight basis?			$\boxtimes$	
b)	Were solid samples percent moisture criteria acceptable?			$\boxtimes$	
c)	Were sample dilutions noted?	$\boxtimes$			

۸n	alytical Assessment	VES	NO	ΝΔ	COMMENT
	Were detected concentrations less than the QL qualified by the laboratory?			114	
e)	Were detected concentrations above the calibration range reported by the laboratory?		$\boxtimes$		
f)	Did the laboratory satisfy the requested sensitivity requirements?	$\boxtimes$			
Lal	boratory Case Narrative	YES	NO	NA	COMMENT
a)	Do the laboratory narrative or laboratory qualifiers indicate deficiencies?	$\boxtimes$			See Notes below
b)	Were all deficiencies noted in the laboratory qualifiers or narrative?	$\boxtimes$			
Sa	mple Preservation and Holding Time	YES	NO	NA	COMMENT
a)	Were samples properly preserved?	$\boxtimes$			
b)	Were holding times met for sample preparation?	$\boxtimes$			
c)	Were holding times met for sample analysis?	$\boxtimes$			
Bla	inks	YES	NO	NA	COMMENTS
a)	Were blanks analyzed at the appropriate frequency?	$\boxtimes$			
b)	Were any analytes detected in the associated preparation/method blank?		$\boxtimes$		
	Were any analytes detected in the associated trip blanks?		$\boxtimes$		Reported in Laboratory Job L2512806
·	Were any analytes detected in the associated field or equipment/rinsate blanks?			$\boxtimes$	
e)	Were any analytes detected in the associated storage blanks?			$\boxtimes$	
	rrogates or Deuterated Monitoring mpounds	YES	NO	NA	COMMENTS
a)	Were the correct surrogate compounds added to each sample?	$\boxtimes$			
b)	Were surrogate recoveries within control limits?	$\boxtimes$			
c)	If not, were samples analyzed at dilution factors of 20x or greater?			$\boxtimes$	
LC	S/LCSD	YES	NO	NA	COMMENTS
a)	Were LCS/LCSD reported at the appropriate frequency?	$\boxtimes$			
b)	Were proper analytes included in the LCS/LCSD?	$\boxtimes$			
c)	Were LCS/LCSD recoveries within control limits?	$\boxtimes$			
d)	Were RPD values within control limits (if LCSD was analyzed)?			$\boxtimes$	
MS	/MSDs	YES	NO	NA	COMMENTS
a)	Were project-specific MS (and MSD) reported?		$\boxtimes$		None from samples in this laboratory job

MS	S/MSDs	YES	NO	NA	COMMENTS
b)	Were proper analytes reported in the MS/MSD?			$\boxtimes$	
c)	Were project-specific MS/MSD recoveries within control limits?			$\boxtimes$	
d)	If not, were sample concentrations greater than 4x the spiking concentration?			$\boxtimes$	
e)	Was the RPD or absolute difference within control limits (if project-specific MSD analyzed)?			$\boxtimes$	
f)	Were project-specific post-digestion spikes analyzed?			$\boxtimes$	
g)	Were project-specific post-digestion spike recoveries within control limits?			$\boxtimes$	
Du	plicates	YES	NO	NA	COMMENTS
a)	Were project-specific laboratory duplicates reported?		$\boxtimes$		None from samples in this laboratory job
b)	Was laboratory duplicate RPD or absolute difference criteria acceptable?			$\boxtimes$	
c)	Were field duplicates reported?			$\boxtimes$	
d)	Was field duplicate RPD or absolute difference criteria acceptable?			$\boxtimes$	
ICI	P Serial Dilution (SD)	YES	NO	NA	COMMENTS
a)	Was project-specific ICP SD data provided?			$\boxtimes$	
b)	Were project-specific ICP SD within acceptable criteria?			$\boxtimes$	
Ov	erall Evaluation	YES	NO	NA	COMMENTS
a)	Were there any other technical problems not previously addressed?		$\boxtimes$		
b)	Were data acceptable and usable, except where noted?	$\boxtimes$			

#### Comments/Notes:

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

1. The laboratory narrative noted that "The samples were logged in accordance with the chain of custody provided by the client at the time of pick up. The original chain of custody was misplaced during transit, and a copy from the initial pickup has been provided at the back of the report. The samples were in the continuous possession of Pace staff until delivered to the laboratory on 3/7/2025." As documented in the data package, a chain of custody was provided and signed by WSP and the laboratory courier at 16:15 on 3/6/2025 when custody of the samples was initially transferred from WSP to Pace. The scanned copy of this chain of custody was used to log in the samples.

Following project practice, WSP placed custody seals on the coolers prior to giving them to the laboratory courier. The Sample Receipt and Container Information form included in the data package documents that the custody seals on coolers A, B, and C were intact. While the chain of custody was not signed to document transfer of custody from the Pace courier to the Pace laboratory staff, the presence of the cooler custody seals provides corroborating evidence that the samples were not compromised during shipment. There is no action other than to note.

2. The chain of custody includes samples collected on March 5, 2025 and March 6, 2025. The preliminary report issued for Laboratory Job L2512806 included all 4 samples on the chain of custody. WSP requested that separate data packages be issued for each sampling date. The March 6, 2025 samples, OF002\_030625 and OF006\_030625, were reported in this Laboratory Job # L2513323. The remaining samples on the chain of custody, including the trip blank associated with these samples were reported in Laboratory Job L2512806.

Data Qualification: No qualifications

						Analyses/Parameters											
						MEK and Toluene	Chemical Oxygen Demand	Total Suspended Solids	Nitrate-Nitrite as N	Oil and Grease	Total Metals	Dissolved Metals	Total Hardness	Free Cyanide	Total Cyanide	Trivalent Chromium	Hexavalent Chromium
Laboratory			Lab		Collection			SM						4500CN-	4500CN-		3500CR-
Job	<b>Field Identification</b>	Matrix	Identification	QC Samples	Date	E624.1	E410.4	2540D	E353.2	E1664B	200.8	200.8	200.8	E(M)	CE	SM 3500	В
L2513323	OF002_030625	WS	L2513323-01		3/6/2025	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
L2513323	OF006_030625	WS	L2513323-02		3/6/2025	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х

#### Notes:

1) Metal analyses were performed by Pace Analytical Mansfield Lab, all other parameters were performed at Pace Analytical Westborough Lab.

2) Total Metals include: aluminum, copper, chromium, iron, nickel, and zinc

3) Dissovled Metals include: chromium and nickel

#### Abbreviations:

MEK: methyl ethyl ketone (2-butanone) MS/MSD: Matrix Spike/Matrix Spike Duplicate QC: Quality Control SM: Standard Methods

WS: Surface Water

Laboratory Job	Sample Name	Analyte	New Result	New MDL	New RL	Qualifier	Reason			
L2513323		No qualifications required								
L2513323	All samples						Laboratory applied U-qualifiers indicating non-detect results and J-qualifiers indicating results below the reporting limit are retained unless other qualifications are indicated in this table. All other laboratory qualifiers are removed.			

#### Abbreviations:

Qualifiers:

MDL: Method Detection Limit RL: Reporting Limit RPD: Relative Percent Difference SDG: Sample Delivery Group **APPENDIX C – LABORATORY ANALYTICAL REPORTS** 



#### ANALYTICAL REPORT

Lab Number:	L2512807
Client:	WSP USA Inc.
	401 Route 73 North
	Suite 205
	Marlton, NJ 08053
ATTN:	Stacy Mason
Phone:	(856) 793-2005
Project Name:	SPS TECHNOLOGIES
Project Number:	US0043268.2150
Report Date:	03/11/25

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

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

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

ace

#### Serial\_No:03112517:17

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2512807

 Report Date:
 03/11/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2512807-01	SW5_030625	WATER	JENKINTOWN, PA	03/06/25 10:00	03/06/25
L2512807-02	SW4_030625	WATER	JENKINTOWN, PA	03/06/25 10:55	03/06/25
L2512807-03	SW3_030625	WATER	JENKINTOWN, PA	03/06/25 12:55	03/06/25
L2512807-04	SW2_030625	WATER	JENKINTOWN, PA	03/06/25 13:10	03/06/25
L2512807-05	SW1_030625	WATER	JENKINTOWN, PA	03/06/25 13:45	03/06/25
L2512807-06	FDSW_030625	WATER	JENKINTOWN, PA	03/06/25 00:00	03/06/25
L2512807-07	TBSW_030625	WATER	JENKINTOWN, PA	03/06/25 00:00	03/06/25

Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150 Lab Number: L2512807 Report Date: 03/11/25

#### **Case Narrative**

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

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

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

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

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

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



Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150 
 Lab Number:
 L2512807

 Report Date:
 03/11/25

#### **Case Narrative (continued)**

#### **Report Revision**

March 11, 2025: The Sample Receipt narrative has been updated.

March 10, 2025: At the client's request, the sample receipt narrative has been changed and the Client IDs have been changed on L2512807-06 and -07.

**Report Submission** 

March 08, 2025: This final report includes the results of all requested analyses. March 07, 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.

#### Sample Receipt

The samples were logged in accordance with the chain of custody provided by the client at the time of pick up. The original chain of custody was misplaced during transit, and a copy from the initial pickup has been provided at the back of the report. The samples were in continuous possession of Pace staff until delivered to the laboratory on 3/7/2025.

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.

Melissa Sturgis Melissa Sturgis

Authorized Signature:

Title: Technical Director/Representative

Date: 03/11/25

## ORGANICS



## VOLATILES



			Serial_No	o:03112517:17
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512807
Project Number:	US0043268.2150		Report Date:	03/11/25
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2512807-01 SW5_030625 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	03/06/25 10:00 03/06/25 Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method: Analytical Date:	128,624.1 03/07/25 10:14			
Analyst:	GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Wes	stborough 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		6	60-140	
Fluorobenzene			86		6	60-140	
4-Bromofluorobenzene			83		6	60-140	



			Serial_No:03112517:17		
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512807	
Project Number:	US0043268.2150		Report Date:	03/11/25	
		SAMPLE RESULTS			
Lab ID: Client ID: Sample Location:	L2512807-02 SW4_030625 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	03/06/25 10:55 03/06/25 Not Specified	
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Water 128,624.1 03/07/25 10:48 GMT				

Parameter	Result	Qualifier	Units	RL	MDL	<b>Dilution Factor</b>
Volatile Organics by GC/MS - We	stborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate		c		Acceptance Qualifier Criteria		
Pentafluorobenzene			97		6	60-140
Fluorobenzene			87		6	60-140
4-Bromofluorobenzene			84		6	60-140



			Serial_N	o:03112517:17
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512807
Project Number:	US0043268.2150		Report Date:	03/11/25
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2512807-03 SW3_030625 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	03/06/25 12:55 03/06/25 Not Specified
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Water 128,624.1 03/07/25 11:23 GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	stborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			90		6	60-140
Fluorobenzene			77		6	60-140
4-Bromofluorobenzene			85		e	60-140



			Serial_No	o:03112517:17
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512807
Project Number:	US0043268.2150		Report Date:	03/11/25
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2512807-04 SW2_030625 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	03/06/25 13:10 03/06/25 Not Specified
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Water 128,624.1 03/07/25 11:57 GMT			

Parameter	Result	Qualifier	Units	RL	MDL	<b>Dilution Factor</b>
Volatile Organics by GC/MS - We	stborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			97		6	60-140
Fluorobenzene			85		6	60-140
4-Bromofluorobenzene			89		6	60-140



			Serial_N	o:03112517:17
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512807
Project Number:	US0043268.2150		Report Date:	03/11/25
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2512807-05 SW1_030625 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	03/06/25 13:45 03/06/25 Not Specified
Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst:	Water 128,624.1 03/07/25 12:32 GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			97		6	60-140
Fluorobenzene			80		6	60-140
4-Bromofluorobenzene			88		6	60-140



			Serial_No	p:03112517:17
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512807
Project Number:	US0043268.2150		Report Date:	03/11/25
		SAMPLE RESULTS		
Lab ID:	L2512807-06		Date Collected:	03/06/25 00:00
Client ID:	FDSW_030625		Date Received:	03/06/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/07/25 13:06			
Analyst:	GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			92		6	60-140
Fluorobenzene			76		6	0-140
4-Bromofluorobenzene			86		e	60-140



			Serial_N	o:03112517:17
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512807
Project Number:	US0043268.2150		Report Date:	03/11/25
		SAMPLE RESULTS		
Lab ID:	L2512807-07		Date Collected:	03/06/25 00:00
Client ID:	TBSW_030625		Date Received:	03/06/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/07/25 13:40			
Analyst:	GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	stborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			95		6	60-140
Fluorobenzene			77		6	60-140
4-Bromofluorobenzene			86		6	60-140

Project Name:	SPS TECHNOLOGIES	Lab Number:	L2512807
Project Number:	US0043268.2150	Report Date:	03/11/25

# Method Blank Analysis Batch Quality Control

Analytical Method: Analytical Date: 128,624.1 03/07/25 08:18 Analyst: GMT

Parameter	Result	Qualifier Units	RL	MDL	
Volatile Organics by GC/MS -	Westborough Lab	for sample(s): 01	-07 Batch:	WG2037922-4	
Toluene	ND	mg/l	0.0010	0.00031	
2-Butanone	ND	mg/l	0.010	0.0010	

		Acceptance
Surrogate	%Recovery	Qualifier Criteria
Destaffunction	404	00.440
Pentafluorobenzene	101	60-140
Fluorobenzene	89	60-140
4-Bromofluorobenzene	83	60-140

Pace

### Lab Control Sample Analysis Batch Quality Control

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

Parar	neter	LCS %Recovery	Qual	LCSI %Recov		Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volat	le Organics by GC/MS - Westborou	gh Lab Associat	ed sample(s)	: 01-07	Batch:	WG20	37922-3				
То	luene	90		-			70-130	-		41	
2-	Butanone	80		-			60-140	-		30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qua	Acceptance Criteria
Pentafluorobenzene	105		60-140
Fluorobenzene	90		60-140
4-Bromofluorobenzene	83		60-140



# Matrix Spike Analysis

Project Name: Project Number:	SPS TECHNO US0043268.21				Batch Q	uality Col	ntrol		Lab Nur Report I			512807 /11/25
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): 01-07 QC Batch ID: WG2037922-5 WG2037922-6 QC Sample: L2512807-01 Client ID: SW5\_030625 Toluene ND 0.00002 0.020 100 0.022 110 47-150 10 41 15 ND 0.00005 0.044 88 0.051 60-140 30 102 2-Butanone

	MS	MSD	Acceptance
Surrogate	% Recovery Qualifier	% Recovery Qualifier	Criteria
4-Bromofluorobenzene	86	81	60-140
Fluorobenzene	83	87	60-140
Pentafluorobenzene	97	102	60-140



# METALS



SAMPLE RESULTSLab ID:L2512807-01Date Collected:03/06/25 1Client ID:SW5_030625Date Received:03/06/25Sample Location:JENKINTOWN, PAField Prep:Not SpecifiedSample Depth:Matrix:WaterVater	fied	
	Applytical	
	Analytical Method	
Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method		Analyst
Total Metals - Mansfield Lab		
Chromium, Total 0.00115 mg/l 0.00100 0.00017 1 03/07/25 08:06 03/07/25 11:31 EPA 3005A	3,200.8	BLR
Nickel, Total 0.00162 J mg/l 0.00200 0.00055 1 03/07/25 08:06 03/07/25 11:31 EPA 3005A	3,200.8	BLR
Total Hardness (by calculation) - Mansfield Lab		
Hardness         90.11         mg/l         0.5400         NA         1         03/07/25         08:06         03/07/25         11:31         EPA         3005A	3,200.8	BLR
General Chemistry - Mansfield Lab		
Chromium, Trivalent         ND         mg/l         0.010         0.003         1         03/07/25         11:31         NA	107,-	
Dissolved Metals - Mansfield Lab		
Chromium, Dissolved 0.0006 J mg/l 0.0010 0.0002 1 03/08/25 07:15 03/08/25 10:50 EPA 3005A	3,200.8	MRC
Nickel, Dissolved 0.0015 J mg/l 0.0020 0.0006 1 03/08/25 07:15 03/08/25 10:50 EPA 3005A	3,200.8	MRC

Project Name: Project Number:		ECHNOLC 43268.2150		SAMPL	E RESI	JLTS	Lab Nu Report		L25128( 03/11/2		
Lab ID:		807-02					Date Co		03/06/25		
Client ID:		030625	۸ د				Date Re		03/06/25		
Sample Location:	JEINKI	NTOWN, F	A				Field Pr	ep:	Not Spec	linea	
Sample Depth:											
Matrix:	Water										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Chromium, Total	0.00071	J	mg/l	0.00100	0.00017	1	03/07/25 08:06	6 03/07/25 11:59	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00256		mg/l	0.00200	0.00055	1	03/07/25 08:06	6 03/07/25 11:59	EPA 3005A	3,200.8	BLR
Total Hardness (by	calculatio	n) - Mansfi	eld Lab								
Hardness	158.5		mg/l	0.5400	NA	1	03/07/25 08:06	6 03/07/25 11:59	EPA 3005A	3,200.8	BLR
General Chemistry -	· Mansfiel	ld Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/07/25 11:59	NA	107,-	
Dissolved Metals - N	<i>l</i> ansfield	Lab									
Chromium, Dissolved	0.0005	J	mg/l	0.0010	0.0002	1	03/08/25 07:15	5 03/08/25 11:24	EPA 3005A	3,200.8	MRC
Nickel, Dissolved	0.0025		mg/l	0.0020	0.0006	1	03/08/25 07:15	5 03/08/25 11:24	EPA 3005A	3,200.8	MRC

Project Name:		ECHNOLO					Lab Nu		L25128		
Project Number:	US004	3268.2150	)	SAMPL	E DEQI	и те	Report	Date:	03/11/2	5	
Lab ID: Client ID: Sample Location:		807-03 )30625 NTOWN, F	ŶĂ	SAMFL	ERES		Date Co Date Re Field Pr	eceived:	03/06/25 03/06/25 Not Spec		
Sample Depth: Matrix:	Water					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Mansf	ield Lab										
Chromium, Total	0.00049	J	mg/l	0.00100	0.00017	1	03/07/25 08:06	6 03/07/25 12:04	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00162	J	mg/l	0.00200	0.00055	1	03/07/25 08:06	6 03/07/25 12:04	EPA 3005A	3,200.8	BLR
Total Hardness (by c	calculation	n) - Mansfi	eld Lab								
Hardness	208.7		mg/l	0.5400	NA	1	03/07/25 08:06	6 03/07/25 12:04	EPA 3005A	3,200.8	BLR
General Chemistry -	Mansfiel	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/07/25 12:04	NA	107,-	
Dissolved Metals - N	lansfield	Lab									
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	03/08/25 07:15	5 03/08/25 11:40	EPA 3005A	3,200.8	MRC
Nickel, Dissolved	0.0017	J	mg/l	0.0020	0.0006	1	03/08/25 07:15	5 03/08/25 11:40	EPA 3005A	3,200.8	MRC

Project Name: Project Number:		ECHNOLC 3268.2150		0.000			Lab Nu Report		L251280 03/11/2		
Lab ID: Client ID: Sample Location:	L25128 SW2_0 JENKII		PΑ	SAMPL	ERESU	JLIS	Date Co Date Re Field Pr	eceived:	03/06/25 03/06/25 Not Spec		
Sample Depth: Matrix: Parameter	Water Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
		Quaimer	Units	KL.	MDL						Analyst
Total Metals - Mansf	ield Lab										
Chromium, Total	0.00047	J	mg/l	0.00100	0.00017	1	03/07/25 08:06	3 03/07/25 12:27	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00106	J	mg/l	0.00200	0.00055	1	03/07/25 08:06	3 03/07/25 12:27	EPA 3005A	3,200.8	BLR
Total Hardness (by c	alculation	n) - Mansfi	eld Lab								
Hardness	219.0		mg/l	0.5400	NA	1	03/07/25 08:06	03/07/25 12:27	EPA 3005A	3,200.8	BLR
General Chemistry -	Mansfield	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/07/25 12:27	NA	107,-	
Dissolved Metals - M	lansfield	Lab									
Chromium, Dissolved	0.0004	J	mg/l	0.0010	0.0002	1	03/08/25 07:15	5 03/08/25 11:46	EPA 3005A	3,200.8	MRC
Nickel, Dissolved	0.0011	J	mg/l	0.0020	0.0006	1	03/08/25 07:15	5 03/08/25 11:46	EPA 3005A	3,200.8	MRC

Project Name: Project Number:		ECHNOL0		CAMPI			Lab Nu Report		L25128 03/11/2		
Lab ID: Client ID: Sample Location:	SW1_	807-05 030625 NTOWN, F	PA	SAMPL	E RESI	JLIS		ollected: eceived: ep:	03/06/25 03/06/25 Not Spec		
Sample Depth: Matrix: Parameter	Water	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
		Quanner	onits	KL			•	,			Analyst
Total Metals - Mans	field Lab										
Chromium, Total	0.00042	J	mg/l	0.00100	0.00017	1	03/07/25 08:0	6 03/07/25 12:31	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00815		mg/l	0.00200	0.00055	1	03/07/25 08:0	6 03/07/25 12:31	EPA 3005A	3,200.8	BLR
Total Hardness (by	calculatio	n) - Mansfi	eld Lab								
Hardness	223.3		mg/l	0.5400	NA	1	03/07/25 08:0	6 03/07/25 12:31	EPA 3005A	3,200.8	BLR
General Chemistry -	Mansfiel	ld Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/07/25 12:31	NA	107,-	
Dissolved Metals - N	/ansfield	Lab									
Chromium, Dissolved	0.0004	J	ma/l	0.0010	0.0002	1	02/09/25 07.4	5 03/08/25 11:51		3,200.8	MRC
		J	mg/l								
Nickel, Dissolved	0.0083		mg/l	0.0020	0.0006	1	03/08/25 07:1	5 03/08/25 11:51	EPA 3005A	3,200.8	MRC

Project Name: Project Number:		ECHNOLO					Lab Nu Report		L25128 03/11/2		
Lab ID: Client ID: Sample Location:	FDSW	807-06 /_030625 NTOWN, F	PA	SAMPL	E RESU	JLTS		ollected: eceived: ep:	03/06/25 03/06/25 Not Spec		
Sample Depth: Matrix: Parameter	Water	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
		quainor									
Total Metals - Mans	TIEID LAD										
Chromium, Total	0.00080	J	mg/l	0.00100	0.00017	1	03/07/25 08:0	6 03/07/25 12:36	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00258		mg/l	0.00200	0.00055	1	03/07/25 08:0	6 03/07/25 12:36	EPA 3005A	3,200.8	BLR
Total Hardness (by	calculatio	n) - Mansfi	eld Lab								
Hardness	161.8		mg/l	0.5400	NA	1	03/07/25 08:0	6 03/07/25 12:36	EPA 3005A	3,200.8	BLR
General Chemistry -	· Mansfiel	ld Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/07/25 12:36	NA	107,-	
Dissolved Metals - N	/ansfield	Lab									
Chromium, Dissolved	0.0005	J	mg/l	0.0010	0.0002	1	02/08/25 07.4	5 03/08/25 11:55		3,200.8	MRC
		J								,	
Nickel, Dissolved	0.0026		mg/l	0.0020	0.0006	1	03/08/25 07:1	5 03/08/25 11:55	EPA 3005A	3,200.8	MRC

 Lab Number:
 L2512807

 Report Date:
 03/11/25

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	Analyst
Total Metals - Mans	field Lab for sample(s)	: 01-06 E	Batch: WO	G20376	31-1				
Chromium, Total	ND	mg/l	0.00100	0.00017	· 1	03/07/25 08:06	03/07/25 11:22	3,200.8	BLR
Nickel, Total	ND	mg/l	0.00200	0.00055	5 1	03/07/25 08:06	03/07/25 11:22	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 cal	culation) - Mansfield	Lab for sa	ample(s):	01-06	Batch: WC	G2037631-1			
Hardness	ND	mg/l	0.5400	NA	1	03/07/25 08:06	03/07/25 11:22	3,200.8	BLR

#### **Prep Information**

Digestion Method: EPA 3005A

Parameter	Result C	Qualifier Ur	nits	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Ma	ansfield Lab f	or sample(s):	01-06	Batch:	WG20	37915-1				
Chromium, Dissolved	ND	n	ng/l	0.0010	0.0002	1	03/08/25 07:15	03/08/25 10:41	3,200.8	MRC
Nickel, Dissolved	ND	n	ng/l	0.0020	0.0006	1	03/08/25 07:15	03/08/25 10:41	3,200.8	MRC

#### **Prep Information**

Digestion Method: EPA 3005A

Pace

### Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

 Lab Number:
 L2512807

 Report Date:
 03/11/25

Project Number: US0043268.2150

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sam	ple(s): 01-06	Batch: W	G2037631-2					
Chromium, Total	96		-		85-115	-		
Nickel, Total	93		-		85-115	-		
Fotal Hardness (by calculation) - Mansfield La	b Associated	sample(s)	: 01-06 Batch:	WG203763	1-2			
Hardness	104		-		85-115	-		
Dissolved Metals - Mansfield Lab Associated	sample(s): 01	-06 Batc	h: WG2037915-	2				
Chromium, Dissolved	91		-		85-115	-		
Nickel, Dissolved	96		-		85-115	-		



L2512807 03/11/25

# Matrix Spike Analysis

Project Name:	SPS TECHNOLOGIES	Batch Quality Control	Lab Number:
Project Number:	US0043268.2150		Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits	, RPD	RPD Qual Limits
Total Metals - Mansfield Lab	Associated sam	ple(s): 01-06	QC Bat	ch ID: WG203	7631-3 V	VG203763′	1-4 QC Sam	ple: L2512807-01	Clien	t ID: SW5_03062
Chromium, Total	0.00115	0.2	0.1855	92		0.2076	103	70-130	11	20
Nickel, Total	0.00162J	0.5	0.4470	89		0.4874	97	70-130	9	20
Total Hardness (by calculation ID: SW5_030625 Hardness	n) - Mansfield L 90.11	ab Associate 66.2	d sample(	s): 01-06 QC <sub>95</sub>	CBatch ID			37631-4 QC Sai	mple: L2	2512807-01 Clier
1 101 11035	50.11	00.2	155.2	95		164.7	113	70-130	7	20
Dissolved Metals - Mansfield SW5_030625					G2037915	-		70-130 Sample: L251280		20 Client ID:
Dissolved Metals - Mansfield					G2037915	-				

Pace

# INORGANICS & MISCELLANEOUS



Serial	No:031	12517:17

Project Name:SPS TECHNOLOGIESLab Number:L2512807Project Number:US0043268.2150Report Date:03/11/25SAMPLE RESULTS

Lab ID:	L2512807-0								3/06/25 10:00	
Client ID:	SW5_03062	25					Date R	eceived: 0	3/06/25	
Sample Location:	JENKINTO	WN, PA					Field P	rep: N	lot Specified	
Sample Depth: Matrix:	Water									
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lal	b								
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/07/25 11:00	03/07/25 13:40	121,4500CN-CE	JER

Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/07/25 11:00	03/07/25 13:40	121,4500CN-CE	JER
Cyanide, Free	0.006	J	mg/l	0.010	0.003	1	-	03/07/25 08:07	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/07/25 07:19	03/07/25 08:57	140,1664B	TPR
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	03/07/25 09:11	03/07/25 09:43	121,3500CR-B	DMO



Serial	No:031	12517:17

**Project Name:** SPS TECHNOLOGIES Lab Number: L2512807 Project Number: **Report Date:** 03/11/25 US0043268.2150 SAMPLE RESULTS

Lab ID: Client ID: Sample Location:	L2512807-0 SW4_03062 JENKINTO\	25						eceived: C	03/06/25 10:55 03/06/25 Not Specified	
Sample Depth: Matrix:	Water					Dilution	Data	-		
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough La	C								
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/07/25 11:00	03/07/25 13:44	121,4500CN-CE	JER
Cyanide, Free	0.005	J	mg/l	0.010	0.003	1	-	03/07/25 08:07	,	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.4	4.4	1.1	03/07/25 07:19	03/07/25 09:49	E(M) 140,1664B	TPR

0.003

1

03/07/25 09:11 03/07/25 09:47 121,3500CR-B

0.010

mg/l



DMO

Chromium, Hexavalent

ND

Serial	No:031	12517:17

**Project Name:** SPS TECHNOLOGIES Lab Number: L2512807 **Report Date:** Project Number: US0043268.2150 03/11/25 SAMPLE RESULTS

Lab ID: Client ID: Sample Location:	L2512807-0 SW3_03062 JENKINTOV	25						eceived: C	03/06/25 12:55 03/06/25 Not Specified	
Sample Depth: Matrix:	Water					Dilution	Data	-		
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lat	C								
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/07/25 11:00	03/07/25 13:45	121,4500CN-CE	JER
Cyanide, Free	0.005	J	mg/l	0.010	0.003	1	-	03/07/25 08:07	,	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.4	4.4	1.1	03/07/25 07:19	03/07/25 10:49	E(M) 140,1664B	TPR

0.003

1

03/07/25 09:11 03/07/25 09:48 121,3500CR-B

0.010

mg/l

Pace

DMO

Chromium, Hexavalent

ND

Serial	No:031	12517:17

Project Name:SPS TECHNOLOGIESLab Number:L2512807Project Number:US0043268.2150Report Date:03/11/25SAMPLE RESULTS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analys
Sample Depth: Matrix:	Water									
Lab ID: Client ID: Sample Location:	L2512807-0 SW2_03062 JENKINTOV	25						ollected: eceived: rep:	03/06/25 13:10 03/06/25 Not Specified	

Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/07/25 11:00	03/07/25 13:46	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/07/25 08:07	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/07/25 07:19	03/07/25 10:51	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/07/25 09:11	03/07/25 09:49	121,3500CR-B	DMO



Serial	No:031	12517:17

Project Name:SPS TECHNOLOGIESLab Number:L2512807Project Number:US0043268.2150Report Date:03/11/25SAMPLE RESULTS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Sample Depth: Matrix:	Water									
Sample Location:	_						Field P	rep:	Not Specified	
Client ID:	SW1 03062	25					Date R	leceived:	03/06/25	
Lab ID:	L2512807-0	)5					Date C	collected:	03/06/25 13:45	,

Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/07/25 11:00	03/07/25 13:47	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/07/25 08:07	121,4500CN-	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/07/25 07:19	03/07/25 10:54	E(M) 140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/07/25 09:11	03/07/25 09:50	121,3500CR-B	DMO



Serial	No:031	12517:17

03/07/25 09:11 03/07/25 09:51 121,3500CR-B

DMO

 Lab Number:
 L2512807

 Report Date:
 03/11/25

# Project Name: SPS TECHNOLOGIES

ND

Project Number: US0043268.2150

#### SAMPLE RESULTS

Lab ID: Client ID: Sample Location:	L2512807-0 FDSW_030 JENKINTOV	625						Received: (	03/06/25 00:00 03/06/25 Not Specified	
Sample Depth: Matrix:	Water									
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lal	)								
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/07/25 11:00	03/07/25 13:50	121,4500CN-CE	JER
Cyanide, Free	0.004	J	mg/l	0.010	0.003	1	-	03/07/25 08:07	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.4	4.4	1.1	03/07/25 07:19	03/07/25 10:56		TPR

0.003

1

0.010

mg/l

Chromium, Hexavalent

 Lab Number:
 L2512807

 Report Date:
 03/11/25

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westb	orough Lab for sam	ple(s): 01	-06 Ba	tch: WG	G2037664-	1			
Oil & Grease, Hem-Grav	ND	mg/l	4.0	4.0	1	03/07/25 07:19	03/07/25 08:55	140,1664B	TPR
General Chemistry - Westb	orough Lab for sam	ple(s): 01	-06 Bat	tch: WC	62037680-	1			
Chromium, Hexavalent	ND	mg/l	0.010	0.003	1	03/07/25 09:11	03/07/25 09:38	121,3500CR-B	DMO
General Chemistry - Westb	orough Lab for sam	ple(s): 01	-06 Bat	tch: WG	62037685-	1			
Cyanide, Free	ND	mg/l	0.010	0.003	1	-	03/07/25 08:07	121,4500CN-E(M	l) KAF
General Chemistry - Westb	orough Lab for sam	ple(s): 01	-06 Bat	tch: WC	62037775-	1			
Cyanide, Total	ND	mg/l	0.005	0.001	1	03/07/25 11:00	03/07/25 13:25	121,4500CN-CE	JER



## Lab Control Sample Analysis Batch Quality Control

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

Parameter	LCS %Recovery Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab A	Associated sample(s): 01-06	Batch: WG203766	64-2				
Oil & Grease, Hem-Grav	92	-		78-114	-		18
General Chemistry - Westborough Lab	Associated sample(s): 01-06	Batch: WG203768	30-2				
Chromium, Hexavalent	99	-		85-115	-		20
General Chemistry - Westborough Lab	Associated sample(s): 01-06	Batch: WG203768	35-2				
Cyanide, Free	94	-		90-110	-		
General Chemistry - Westborough Lab	Associated sample(s): 01-06	Batch: WG203777	75-2				
Cyanide, Total	98	-		90-110	-		

Pace

## Matrix Spike Analysis

		Batch Quality Control	
Project Name:	SPS TECHNOLOGIES		La
Project Number:	US0043268.2150		Re

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD Q	RPD Limits
General Chemistry - Westborou SW5_030625	gh Lab Asso	ciated samp	ole(s): 01-06	QC Batch II	D: WG2(	037664-4	WG2037664-5	QC S	ample: L25 <sup>,</sup>	12807-01	Client ID:
Oil & Grease, Hem-Grav	ND	42.1	40	94		39	93		78-114	2	18
General Chemistry - Westborou SW5_030625	gh Lab Asso	ciated samp	ole(s): 01-06	QC Batch II	D: WG20	037680-4	WG2037680-5	QC S	ample: L25 <sup>-</sup>	12807-01	Client ID:
Chromium, Hexavalent	0.004J	0.1	0.092	92		0.090	90		85-115	2	20
General Chemistry - Westborou SW5_030625	gh Lab Asso	ciated samp	ole(s): 01-06	QC Batch II	D: WG20	037685-4	WG2037685-5	QC S	ample: L25 <sup>-</sup>	12807-01	Client ID:
Cyanide, Free	0.006J	0.25	0.256	102		0.260	104		80-120	2	20
General Chemistry - Westborou SW5_030625	gh Lab Asso	ciated samp	le(s): 01-06	QC Batch II	D: WG20	037775-3	WG2037775-4	QC S	ample: L25 <sup>-</sup>	12807-01	Client ID:
Cyanide, Total	0.002J	0.2	0.212	106		0.210	105		90-110	1	30

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## Lab Duplicate Analysis Batch Quality Control

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual RPD Limits
General Chemistry - Westborough Lab Associated	sample(s): 01-06 QC B	atch ID: WG2037664-3	QC Sample: L2	512807-01 (	Client ID: SW5_030625
Oil & Grease, Hem-Grav	ND	ND	mg/l	NC	18
General Chemistry - Westborough Lab Associated	sample(s): 01-06 QC B	atch ID: WG2037680-3	QC Sample: L2	512807-01 (	Client ID: SW5_030625
Chromium, Hexavalent	0.004J	0.004J	mg/l	NC	20
General Chemistry - Westborough Lab Associated	sample(s): 01-06 QC B	atch ID: WG2037685-3	QC Sample: L2	512807-01 (	Client ID: SW5_030625
Cyanide, Free	0.006J	0.005J	mg/l	NC	20
General Chemistry - Westborough Lab Associated	sample(s): 01-06 QC B	atch ID: WG2037775-5	QC Sample: L2	512807-01 (	Client ID: SW5_030625
Cyanide, Total	0.002J	ND	mg/l	NC	30

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Serial\_No:03112517:17 Lab Number: L2512807 Report Date: 03/11/25

#### Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

#### **Cooler Information**

Cooler	Custody Seal
A	Present/Intact
В	Present/Intact
С	Present/Intact
D	Present/Intact

#### **Container Information**

Container Information			Initial	ı Final	Temp			Frozen		
	Container ID	Container Type	Cooler	рН			deg C Pres	Seal	Date/Time	Analysis(*)
	L2512807-01A	Plastic 120ml HNO3 preserved Filtrates	А	NA	NA	2.0	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
	L2512807-01A1	Plastic 120ml HNO3 preserved Filtrates	А	NA	NA	2.0	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
	L2512807-01A2	Plastic 120ml HNO3 preserved Filtrates	А	NA	NA	2.0	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
	L2512807-01C	Plastic 250ml unpreserved	А	7	7	2.0	Y	Present/Intact		-
	L2512807-01C1	Plastic 250ml unpreserved	А	7	7	2.0	Y	Present/Intact		-
	L2512807-01C2	Plastic 250ml unpreserved	А	7	7	2.0	Y	Present/Intact		-
	L2512807-01D	Plastic 250ml HNO3 preserved	А	<2	<2	2.0	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
	L2512807-01D1	Plastic 250ml HNO3 preserved	A	<2	<2	2.0	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
	L2512807-01D2	Plastic 250ml HNO3 preserved	A	<2	<2	2.0	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
	L2512807-01T	Amber 1L HCI preserved	А	NA		2.0	Y	Present/Intact		OG-1664(28)
	L2512807-01T1	Amber 1L HCI preserved	А	NA		2.0	Y	Present/Intact		OG-1664(28)
	L2512807-01T2	Amber 1L HCI preserved	А	NA		2.0	Y	Present/Intact		OG-1664(28)
	L2512807-01U	Amber 1L HCI preserved	А	NA		2.0	Y	Present/Intact		OG-1664(28)
	L2512807-01U1	Amber 1L HCI preserved	А	NA		2.0	Y	Present/Intact		OG-1664(28)
	L2512807-01U2	Amber 1L HCI preserved	А	NA		2.0	Y	Present/Intact		OG-1664(28)
	L2512807-01V	Plastic 500ml unpreserved	А	7	7	2.0	Y	Present/Intact		HEXCR-3500(1),FCN(1)
	L2512807-01V1	Plastic 500ml unpreserved	А	7	7	2.0	Υ	Present/Intact		HEXCR-3500(1),FCN(1)
	L2512807-01V2	Plastic 500ml unpreserved	А	7	7	2.0	Υ	Present/Intact		HEXCR-3500(1),FCN(1)



Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2512807-01W	Plastic 250ml NaOH preserved	А	>12	>12	2.0	Y	Present/Intact		TCN-4500(14)
L2512807-01W1	Plastic 250ml NaOH preserved	А	>12	>12	2.0	Y	Present/Intact		TCN-4500(14)
L2512807-01W2	Plastic 250ml NaOH preserved	А	>12	>12	2.0	Y	Present/Intact		TCN-4500(14)
L2512807-01X	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2512807-01X1	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2512807-01X2	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2512807-01Y	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2512807-01Y1	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2512807-01Y2	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2512807-01Z	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2512807-01Z1	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2512807-01Z2	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2512807-02A	Plastic 120ml HNO3 preserved Filtrates	С	NA	NA	4.4	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
L2512807-02C	Plastic 250ml unpreserved	С	7	7	4.4	Y	Present/Intact		-
L2512807-02D	Plastic 250ml HNO3 preserved	С	<2	<2	4.4	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2512807-02T	Amber 1L HCI preserved	С	NA		4.4	Y	Present/Intact		OG-1664(28)
L2512807-02U	Amber 1L HCI preserved	С	NA		4.4	Y	Present/Intact		OG-1664(28)
L2512807-02V	Plastic 500ml unpreserved	С	7	7	4.4	Y	Present/Intact		HEXCR-3500(1),FCN(1)
L2512807-02W	Plastic 250ml NaOH preserved	С	>12	>12	4.4	Y	Present/Intact		TCN-4500(14)
L2512807-02X	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2512807-02Y	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2512807-02Z	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)
L2512807-03A	Plastic 120ml HNO3 preserved Filtrates	С	NA	NA	4.4	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
L2512807-03C	Plastic 250ml unpreserved	С	7	7	4.4	Y	Present/Intact		-
L2512807-03D	Plastic 250ml HNO3 preserved	С	<2	<2	4.4	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2512807-03T	Amber 1L HCI preserved	С	NA		4.4	Y	Present/Intact		OG-1664(28)
L2512807-03U	Amber 1L HCI preserved	С	NA		4.4	Y	Present/Intact		OG-1664(28)



Container Information			Initial	Final	Temp			Frozen		
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)	
L2512807-03V	Plastic 500ml unpreserved	С	7	7	4.4	Y	Present/Intact		HEXCR-3500(1),FCN(1)	
L2512807-03W	Plastic 250ml NaOH preserved	С	>12	>12	4.4	Y	Present/Intact		TCN-4500(14)	
L2512807-03X	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
L2512807-03Y	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
L2512807-03Z	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
L2512807-04A	Plastic 120ml HNO3 preserved Filtrates	В	NA	NA	2.8	Y	Present/Intact		CR-2008S(180),NI-2008S(180)	
L2512807-04C	Plastic 250ml unpreserved	В	7	7	2.8	Y	Present/Intact		-	
L2512807-04D	Plastic 250ml HNO3 preserved	В	<2	<2	2.8	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)	
L2512807-04T	Amber 1L HCI preserved	В	NA		2.8	Y	Present/Intact		OG-1664(28)	
L2512807-04U	Amber 1L HCI preserved	В	NA		2.8	Y	Present/Intact		OG-1664(28)	
L2512807-04V	Plastic 500ml unpreserved	В	7	7	2.8	Y	Present/Intact		HEXCR-3500(1),FCN(1)	
L2512807-04W	Plastic 250ml NaOH preserved	В	>12	>12	2.8	Y	Present/Intact		TCN-4500(14)	
L2512807-04X	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
L2512807-04Y	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
L2512807-04Z	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
L2512807-05A	Plastic 120ml HNO3 preserved Filtrates	В	NA	NA	2.8	Y	Present/Intact		CR-2008S(180),NI-2008S(180)	
L2512807-05C	Plastic 250ml unpreserved	В	7	7	2.8	Y	Present/Intact		-	
L2512807-05D	Plastic 250ml HNO3 preserved	В	<2	<2	2.8	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)	
L2512807-05T	Amber 1L HCI preserved	В	NA		2.8	Y	Present/Intact		OG-1664(28)	
L2512807-05U	Amber 1L HCI preserved	В	NA		2.8	Y	Present/Intact		OG-1664(28)	
L2512807-05V	Plastic 500ml unpreserved	В	7	7	2.8	Y	Present/Intact		HEXCR-3500(1),FCN(1)	
L2512807-05W	Plastic 250ml NaOH preserved	В	>12	>12	2.8	Y	Present/Intact		TCN-4500(14)	
L2512807-05X	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
L2512807-05Y	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
L2512807-05Z	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
L2512807-06A	Plastic 120ml HNO3 preserved Filtrates	С	NA	NA	4.4	Y	Present/Intact		CR-2008S(180),NI-2008S(180)	
L2512807-06C	Plastic 250ml unpreserved	С	7	7	4.4	Y	Present/Intact		-	

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Serial\_No:03112517:17 *Lab Number:* L2512807 *Report Date:* 03/11/25

Container Information			Initial	ial Final	Temp			Frozen		
Container ID	Container Type	Cooler	рН рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)	
L2512807-06D	Plastic 250ml HNO3 preserved	С	<2	<2	4.4	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)	
L2512807-06T	Amber 1L HCI preserved	С	NA		4.4	Y	Present/Intact		OG-1664(28)	
L2512807-06U	Amber 1L HCI preserved	С	NA		4.4	Y	Present/Intact		OG-1664(28)	
L2512807-06V	Plastic 500ml unpreserved	С	7	7	4.4	Y	Present/Intact		HEXCR-3500(1),FCN(1)	
L2512807-06W	Plastic 250ml NaOH preserved	С	>12	>12	4.4	Y	Present/Intact		TCN-4500(14)	
L2512807-06X	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
L2512807-06Y	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
L2512807-06Z	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
L2512807-07A	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
L2512807-07B	Vial Na2S2O3 preserved	А	NA		2.0	Y	Present/Intact		624.1-PPM(7)	
	<b>Container ID</b> L2512807-06D L2512807-06T L2512807-06U L2512807-06V L2512807-06W L2512807-06X L2512807-06Y L2512807-06Z L2512807-07A	Container IDContainer TypeL2512807-06DPlastic 250ml HNO3 preservedL2512807-06TAmber 1L HCl preservedL2512807-06UAmber 1L HCl preservedL2512807-06VPlastic 500ml unpreservedL2512807-06WPlastic 250ml NaOH preservedL2512807-06XVial Na2S2O3 preservedL2512807-06YVial Na2S2O3 preservedL2512807-06ZVial Na2S2O3 preserved	Container IDContainer TypeCoolerL2512807-06DPlastic 250ml HNO3 preservedCL2512807-06TAmber 1L HCl preservedCL2512807-06UAmber 1L HCl preservedCL2512807-06VPlastic 500ml unpreservedCL2512807-06WPlastic 250ml NaOH preservedCL2512807-06XVial Na2S2O3 preservedAL2512807-06YVial Na2S2O3 preservedAL2512807-06ZVial Na2S2O3 preservedAL2512807-07AVial Na2S2O3 preservedA	Container IDContainer TypeCoolerPHL2512807-06DPlastic 250ml HNO3 preservedC<2	Container IDContainer TypeCoolerPHPHL2512807-06DPlastic 250ml HNO3 preservedC<2	Container IDContainer TypeCoolerPHPHdeg CL2512807-06DPlastic 250ml HNO3 preservedC<2	Container IDContainer TypeCoolerPHPHPHdeg CPresL2512807-06DPlastic 250ml HNO3 preservedC<2	Container IDContainer TypeCoolerPHPHPHPHPerpL2512807-06DPlastic 250ml HNO3 preservedC<2	Container IDContainer TypeCoolerPHPHdeg CPresSealDate/TimeL2512807-06DPlastic 250ml HNO3 preservedC<2	

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## Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

### Lab Number: L2512807

#### **Report Date:** 03/11/25

#### GLOSSARY

#### Acronyms

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

Project Number: US0043268.2150

### Lab Number: L2512807 Report Date: 03/11/25

#### Footnotes

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

Report Format: DU Report with 'J' Qualifiers



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#### Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2512807

**Report Date:** 03/11/25

#### 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.)

Report Format: DU Report with 'J' Qualifiers



 Lab Number:
 L2512807

 Report Date:
 03/11/25

# REFERENCES

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

# LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at 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: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: <u>NPW:</u> Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: 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, SM4500CI-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: AI, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: AI, 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, ANÅB/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

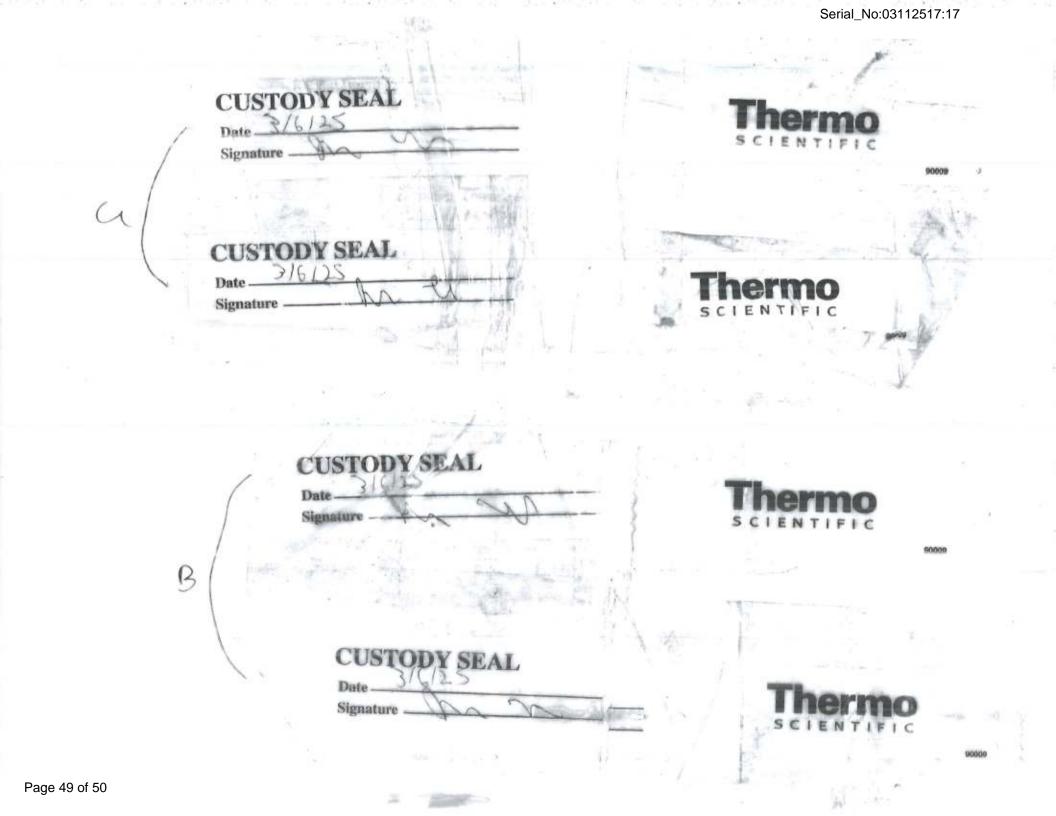
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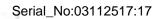
For a complete listing of analytes and methods, please contact your Project Manager.

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* Attorney All VOA Dissibilited	I-Client Priviledged + s in one cooler metals will be lab filtere Sample ID SW5_030625 SW5_030625 SW2_030625 SW2_030625 SW1_030625 FD GW.030625	Confirdential ed Date 316/2 316/2 316/2 316/2 316/2	Dilection           Time           10:00           5           10:56           12:56           13:10           13:45	Matrix 5 W 5 W 5 W 5 W 5 W 5 W	Initials           3ET           3ET           3ET           3ET           3ET           3ET           3ET           3ET	10 X Y X X	X X X X X VILLON	X X X X X CENTER INST	X X X X X X X X X X X X X X X X X X X	X X X X V V V	X X X X X VILLAND	× × × × × ×	X X X X X X X X X X X X X X X X X X X	19 × 19 × 19 × 19 × 19 × 19 × 19 × 19 ×	Done Not needed Lab to do Preservation Lab to do; (Pluau senalty onlow) Sample Specific Comm A S.99 (MS))(4) H 7.24 A 7.24 A 7.62 A 8,19	н ль ( <i>Q d</i> 2 9 9 9 9 9
* Attorney All VOA Dissibilited	I-Client Priviledged + s in one cooler metals will be lab filtere Sample ID SW5_030625 SW5_030625 SW2_030625 SW2_030625 SW1_030625 FD GW.030625	Confirdential ed Date 316/2 316/2 316/2 316/2 316/2	Dilection           Time           10:00           5           10:56           12:56           13:10           13:45	Matrix 513 513 513 513 513 513 513 513 513	Initials           3ET           3ET           3ET           3ET           3ET           3ET           3ET           3ET	N X X X VIII	X X X X X VILLON	X X X X X CENTER INST	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X VILLAND	× × × × × ×	X X X X X X X X X X X X X X X X X X X	x P x P x P x P y P	Done Not needed Lab to do Preservation Lab to do; (Pluau senalty onlow) Sample Specific Comm A S.99 (MS))(4) H 7.24 A 7.24 A 7.62 A 8,19	н ль ( <i>J</i> р р С С С

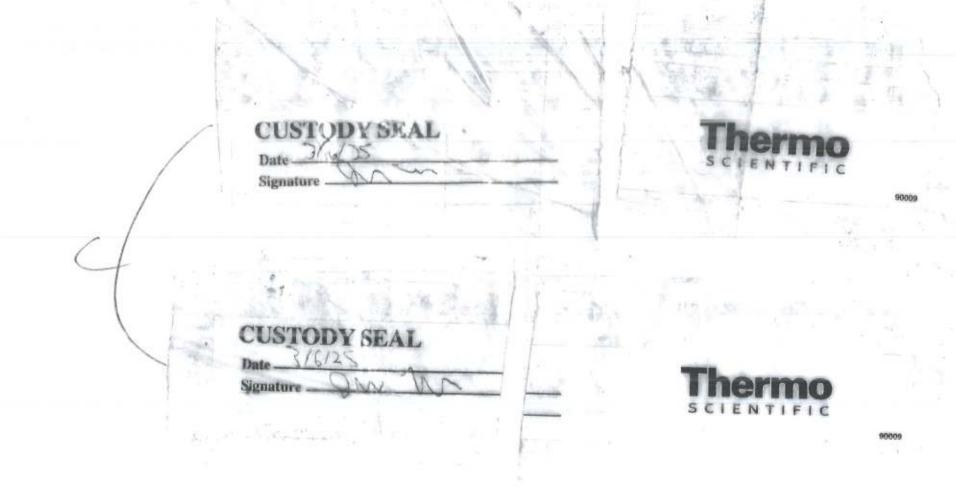
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Page 48 of 50





90,009







# ANALYTICAL REPORT

Lab Number:	L2513323
Client:	WSP USA Inc.
	401 Route 73 North
	Suite 205
	Marlton, NJ 08053
ATTN:	Stacy Mason
Phone:	(856) 793-2005
Project Name:	SPS TECHNOLOGIES
Project Number:	US0043268.2150
Report Date:	03/11/25

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

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

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

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2513323

 Report Date:
 03/11/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2513323-01	OF002_030625	WATER	JENKINTOWN, PA	03/06/25 10:45	03/06/25
L2513323-02	OF006_030625	WATER	JENKINTOWN, PA	03/06/25 11:30	03/06/25



Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150 Lab Number: L2513323 Report Date: 03/11/25

# **Case Narrative**

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

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

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

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

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

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



Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150 
 Lab Number:
 L2513323

 Report Date:
 03/11/25

# **Case Narrative (continued)**

# **Report Revision**

March 11, 2025: The Sample Receipt narrative has been updated.

# **Report Submission**

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

# Sample Receipt

The samples were logged in accordance with the chain of custody provided by the client at the time of pick up. The original chain of custody was misplaced during transit, and a copy from the initial pickup has been provided at the back of the report. The samples were in continuous possession of Pace staff until delivered to the laboratory on 3/7/2025.

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.

Melissa Sturgis Melissa Sturgis

Authorized Signature:

Title: Technical Director/Representative

Date: 03/11/25

# ORGANICS



# VOLATILES



			Serial_N	0:03112517:19
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2513323
Project Number:	US0043268.2150		Report Date:	03/11/25
		SAMPLE RESULTS		
Lab ID:	L2513323-01		Date Collected:	03/06/25 10:45
Client ID:	OF002_030625		Date Received:	03/06/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/07/25 10:02			
Analyst:	GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			81		6	60-140
Fluorobenzene			73		6	0-140
4-Bromofluorobenzene			111		e	60-140

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			Serial_N	0:03112517:19
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2513323
Project Number:	US0043268.2150		Report Date:	03/11/25
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2513323-02 OF006_030625 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	03/06/25 11:30 03/06/25 Not Specified
Sample Depth:				
Matrix: Analytical Method: Analytical Date: Analyst:	Water 128,624.1 03/07/25 10:36 GMT			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier		ptance iteria
Pentafluorobenzene			82		6	60-140
Fluorobenzene			73		6	60-140
4-Bromofluorobenzene			109		6	60-140

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 Project Name:
 SPS TECHNOLOGIES
 Lab Number:
 L2513323

 Project Number:
 US0043268.2150
 Report Date:
 03/11/25

# Method Blank Analysis Batch Quality Control

Analytical Method:128,624.1Analytical Date:03/07/25 08:17Analyst:GMT

Parameter	Result	Qualifier Units	RL	MDL	
Volatile Organics by GC/MS	- Westborough Lab	for sample(s): (	01-02 Batch:	WG2037807-4	
Toluene	ND	mg/l	0.0010	0.00031	
2-Butanone	ND	mg/l	0.010	0.0010	

		Acceptance
Surrogate	%Recovery	Qualifier Criteria
Pentafluorobenzene	88	60-140
Fluorobenzene	73	60-140
4-Bromofluorobenzene	116	60-140



# Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

**Project Number:** US0043268.2150

 Lab Number:
 L2513323

 Report Date:
 03/11/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westbord			: 01-02 Batch		37807-3		.,		
Toluene	100	,	-		70-130	-		41	
2-Butanone	72		-		60-140	-		30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
Pentafluorobenzene	91		60-140
Fluorobenzene	86		60-140
4-Bromofluorobenzene	112		60-140



# METALS



Project Name:	SPS TECHNOLOGIES		Lab Number:	L2513323
Project Number:	US0043268.2150		Report Date:	03/11/25
		SAMPLE RESULTS		
Lab ID:	L2513323-01		Date Collected:	03/06/25 10:45
Client ID:	OF002_030625		Date Received:	03/06/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified

# Sample Depth:

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Ma	nsfield Lab										
Aluminum, Total	0.06665		mg/l	0.01000	0.00327	1	03/07/25 08:06	03/07/25 11:50	EPA 3005A	3,200.8	BLR
Chromium, Total	0.02075		mg/l	0.00100	0.00017	1	03/07/25 08:06	03/07/25 11:50	EPA 3005A	3,200.8	BLR
Copper, Total	0.00980		mg/l	0.00100	0.00038	1	03/07/25 08:06	03/07/25 11:50	EPA 3005A	3,200.8	BLR
Iron, Total	0.6708		mg/l	0.05000	0.01910	1	03/07/25 08:06	03/07/25 11:50	EPA 3005A	3,200.8	BLR
Lead, Total	0.00121		mg/l	0.00100	0.00034	1	03/07/25 08:06	03/07/25 11:50	EPA 3005A	3,200.8	BLR
Nickel, Total	0.01997		mg/l	0.00200	0.00055	1	03/07/25 08:06	03/07/25 11:50	EPA 3005A	3,200.8	BLR
Zinc, Total	0.1556		mg/l	0.00500	0.00341	1	03/07/25 08:06	03/07/25 11:50	EPA 3005A	3,200.8	BLR
Total Hardness (b	oy calculatio	n) - Mansfi	eld Lab								
Hardness	582.2		mg/l	0.5400	NA	1	03/07/25 08:06	03/07/25 11:50	EPA 3005A	3,200.8	BLR

General Chemistry	- Mansfiel	d Lab					
Chromium, Trivalent	0.006	J	mg/l	0.010	0.003	1	03/07/25 11:50 NA 107,-

# Dissolved Metals - Mansfield Lab

Chromium, Dissolved	0.0210	mg/l	0.0010	0.0002	1	03/08/25 07:15 03/08/25 11:15 EPA 3005A	3,200.8	MRC
Nickel, Dissolved	0.0206	mg/l	0.0020	0.0006	1	03/08/25 07:15 03/08/25 11:15 EPA 3005A	3,200.8	MRC

Pace

Project Name:	SPS TECHNOLOGIES		Lab Number:	L2513323
Project Number:	US0043268.2150		Report Date:	03/11/25
		SAMPLE RESULTS		
Lab ID:	L2513323-02		Date Collected:	03/06/25 11:30
Client ID:	OF006_030625		Date Received:	03/06/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified

# Sample Depth:

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Ma	nsfield Lab										
Aluminum, Total	0.1286		mg/l	0.01000	0.00327	1	03/07/25 08:06	03/07/25 11:54	EPA 3005A	3,200.8	BLR
Chromium, Total	0.00054	J	mg/l	0.00100	0.00017	1	03/07/25 08:06	03/07/25 11:54	EPA 3005A	3,200.8	BLR
Copper, Total	0.00390		mg/l	0.00100	0.00038	1	03/07/25 08:06	03/07/25 11:54	EPA 3005A	3,200.8	BLR
Iron, Total	0.4369		mg/l	0.05000	0.01910	1	03/07/25 08:06	03/07/25 11:54	EPA 3005A	3,200.8	BLR
Lead, Total	0.00067	J	mg/l	0.00100	0.00034	1	03/07/25 08:06	03/07/25 11:54	EPA 3005A	3,200.8	BLR
Nickel, Total	0.00145	J	mg/l	0.00200	0.00055	1	03/07/25 08:06	03/07/25 11:54	EPA 3005A	3,200.8	BLR
Zinc, Total	0.04159		mg/l	0.00500	0.00341	1	03/07/25 08:06	03/07/25 11:54	EPA 3005A	3,200.8	BLR
Total Hardness (b	by calculatio	n) - Mansfi	eld Lab								
Hardness	222.7		mg/l	0.5400	NA	1	03/07/25 08:06	03/07/25 11:54	EPA 3005A	3,200.8	BLR

General Chemistry - Mansfield Lab									
Chromium, Trivalent	ND	mg/l	0.010	0.003	1	03/07/25 11:54 NA 107,-			
Dissolved Metals - Mansfield Lab									

Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	03/08/25 07:15 03/08/25 11:20 EPA 3005A	3,200.8	MRC
Nickel, Dissolved	0.0017	J	mg/l	0.0020	0.0006	1	03/08/25 07:15 03/08/25 11:20 EPA 3005A	3,200.8	MRC

Pace

Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150 
 Lab Number:
 L2513323

 Report Date:
 03/11/25

# Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansf	field Lab for sample(s):	01-02 B	Batch: WC	G20376	31-1				
Aluminum, Total	ND	mg/l	0.01000	0.00327	<sup>'</sup> 1	03/07/25 08:06	03/07/25 11:22	3,200.8	BLR
Chromium, Total	ND	mg/l	0.00100	0.00017	<sup>.</sup> 1	03/07/25 08:06	03/07/25 11:22	3,200.8	BLR
Copper, Total	ND	mg/l	0.00100	0.00038	1	03/07/25 08:06	03/07/25 11:22	3,200.8	BLR
Iron, Total	ND	mg/l	0.05000	0.01910	1	03/07/25 08:06	03/07/25 11:22	3,200.8	BLR
Lead, Total	ND	mg/l	0.00100	0.00034	· 1	03/07/25 08:06	03/07/25 11:22	3,200.8	BLR
Nickel, Total	ND	mg/l	0.00200	0.00055	1	03/07/25 08:06	03/07/25 11:22	3,200.8	BLR
Zinc, Total	ND	mg/l	0.00500	0.00341	1	03/07/25 08:06	03/07/25 11:22	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	v calculation) - Mansfield L	ab for sa	ample(s):	01-02	Batch: W	G2037631-1			
Hardness	ND	mg/l	0.5400	NA	1	03/07/25 08:06	03/07/25 11:22	3,200.8	BLR

# **Prep Information**

Digestion Method: EPA 3005A

Parameter	Result Q	ualifier Un	its R	RL I	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Ma	ansfield Lab fo	or sample(s):	01-02	Batch:	WG20	37915-1				
Chromium, Dissolved	ND	m	g/l 0.	.0010	0.0002	1	03/08/25 07:15	03/08/25 10:41	3,200.8	MRC
Nickel, Dissolved	ND	m	g/l 0.	.0020	0.0006	1	03/08/25 07:15	03/08/25 10:41	3,200.8	MRC

# **Prep Information**

Digestion Method: EPA 3005A

Pace

# Lab Control Sample Analysis Batch Quality Control

**Project Name:** SPS TECHNOLOGIES

Project Number: US0043268.2150 Lab Number: L2513323 Report Date: 03/11/25

Parameter	LCS %Recovery	Qual %	LCSD 6Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sam	ole(s): 01-02	Batch: WG20	37631-2					
Aluminum, Total	100		-		85-115	-		
Chromium, Total	96		-		85-115	-		
Copper, Total	92		-		85-115	-		
Iron, Total	101		-		85-115	-		
Lead, Total	97		-		85-115	-		
Nickel, Total	93		-		85-115	-		
Zinc, Total	100		-		85-115	-		
Total Hardness (by calculation) - Mansfield La	b Associated	sample(s): 01	-02 Batch: \	VG203763 <sup>,</sup>	1-2			
Hardness	104		-		85-115	-		
Dissolved Metals - Mansfield Lab Associated	sample(s): 01	-02 Batch: W	/G2037915-2					
Chromium, Dissolved	91		-		85-115	-		
Nickel, Dissolved	96		-		85-115	-		

Pace

# Matrix Spike Analysis

Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

 Lab Number:
 L2513323

 Report Date:
 03/11/25

MS RPD MS Native MS MSD MSD Recovery Sample %Recovery Qual Found Limits Added Found Limits %Recovery Qual **RPD** Qual Parameter Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2037631-3 WG2037631-4 QC Sample: L2512807-01 Client ID: MS Sample 0.5082 2 2.529 2.607 105 3 Aluminum. Total 101 70-130 20 Chromium. Total 0.00115 0.2 0.1855 0.2076 92 103 70-130 11 20 Copper, Total 0.005 0.25 0.2256 0.2572 88 101 70-130 13 20 Iron, Total 0.5426 1.387 1.538 1 84 100 70-130 10 20 Lead. Total 0.0022 0.53 0.5018 94 0.5402 102 70-130 7 20 Nickel, Total 0.00162J 0.5 0.4470 0.4874 97 89 70-130 9 20 Zinc, Total 0.0150 0.5 0.5007 0.5436 20 97 106 70-130 8 Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2037631-3 WG2037631-4 QC Sample: L2512807-01 Client ID: MS Sample Hardness 90.11 66.2 153.2 95 164.7 113 70-130 7 20 Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG2037915-3 WG2037915-4 QC Sample: L2512807-01 Client ID: MS Sample Chromium. Dissolved 0.0006J 0.2 0.1846 92 0.1851 92 70-130 0 20 Nickel. Dissolved 0.0015J 0.4821 0.4788 0.5 96 96 70-130 1 20



# INORGANICS & MISCELLANEOUS



L2513323

03/11/25

Lab Number:

**Report Date:** 

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

# SAMPLE RESULTS

Lab ID:	L2513323-01	Date Collected:	03/06/25 10:45
Client ID:	OF002_030625	Date Received:	03/06/25
Sample Location:	JENKINTOWN, PA	Field Prep:	Not Specified

Sample Depth: Matrix:

Water

Matrix.	valor									
Parameter	Result	Qualifier	Units	RL			Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough La	b								
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	03/10/25 17:17	121,2540D	CVN
Cyanide, Total	0.029		mg/l	0.005	0.001	1	03/07/25 11:00	03/07/25 13:38	121,4500CN-CE	JER
Cyanide, Free	0.007	J	mg/l	0.010	0.003	1	-	03/07/25 08:07	121,4500CN- E(M)	KAF
Nitrogen, Nitrate/Nitrite	2.2		mg/l	0.10	0.046	1	-	03/07/25 07:54	44,353.2	KAF
Chemical Oxygen Demand	57.		mg/l	20	6.0	1	03/07/25 09:30	03/07/25 13:02	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/10/25 16:08	03/10/25 16:10	140,1664B	TPR
Chromium, Hexavalent	0.014		mg/l	0.010	0.003	1	03/07/25 09:11	03/07/25 09:41	121,3500CR-B	DMO



L2513323

03/11/25

Lab Number:

**Report Date:** 

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

# SAMPLE RESULTS

Lab ID:L2513323-02Date Collected:03/06/25 11:30Client ID:OF006\_030625Date Received:03/06/25Sample Location:JENKINTOWN, PAField Prep:Not Specified

Sample Depth: Matrix:

Water

Matrix.	valei									
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough La	b								
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	03/10/25 17:17	121,2540D	CVN
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/07/25 11:00	03/07/25 13:39	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/07/25 08:07	121,4500CN-	KAF
Nitrogen, Nitrate/Nitrite	4.2		mg/l	0.10	0.046	1	-	03/07/25 07:59	E <del>(M)</del> 44,353.2	KAF
Chemical Oxygen Demand	28.		mg/l	20	6.0	1	03/07/25 09:30	03/07/25 13:02	44,410.4	CVN
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/10/25 16:08	03/10/25 16:10	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/07/25 09:11	03/07/25 09:42	121,3500CR-B	DMO

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2513323

 Report Date:
 03/11/25

# Method Blank Analysis Batch Quality Control

Parameter	Result Q	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab	for sam	ple(s): 0	1-02 E	Batch: WC	G2037594-	1			
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	03/07/25 03:21	44,353.2	KAF
General Chemistry -	Westborough Lab	for sam	ple(s): 0	1-02 E	Batch: WC	62037664-	1			
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/07/25 07:19	03/07/25 08:55	140,1664B	TPR
General Chemistry -	Westborough Lab	for sam	ple(s): 0	1-02 E	Batch: WC	62037680-	1			
Chromium, Hexavalent	ND		mg/l	0.01	0 0.003	1	03/07/25 09:11	03/07/25 09:38	121,3500CR-B	DMO
General Chemistry -	Westborough Lab	for sam	ple(s): 0	1-02 E	Batch: WC	62037684-	1			
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	03/07/25 08:12	121,2540D	CVN
General Chemistry -	Westborough Lab	for sam	ple(s): 0	1-02 E	Batch: WC	62037685-	1			
Cyanide, Free	ND		mg/l	0.01	0 0.003	1	-	03/07/25 08:07	121,4500CN-E(N	I) KAF
General Chemistry -	Westborough Lab	for sam	ple(s): 0	1-02 E	Batch: WC	62037727-	1			
Chemical Oxygen Deman	d ND		mg/l	20	6.0	1	03/07/25 09:30	03/07/25 13:00	44,410.4	CVN
General Chemistry -	Westborough Lab	for sam	ple(s): 0	1-02 E	Batch: WC	62037775-	1			
Cyanide, Total	ND		mg/l	0.00	5 0.001	1	03/07/25 11:00	03/07/25 13:25	121,4500CN-CE	E JER



# Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150 Lab Number: L2513323 Report Date: 03/11/25

LCS LCSD %Recovery %Recovery %Recovery Limits **RPD** Limits Qual RPD Parameter Qual Qual General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2037594-2 Nitrogen, Nitrate/Nitrite 100 90-110 -General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2037664-2 Oil & Grease, Hem-Grav 92 78-114 18 General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2037680-2 Chromium, Hexavalent 99 85-115 20 -General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2037684-2 Solids, Total Suspended 102 80-120 General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2037685-2 Cyanide, Free 94 90-110 General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2037727-2 Chemical Oxygen Demand 99 90-110 -General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2037775-2 Cyanide, Total 98 -90-110



# Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

 Lab Number:
 L2513323

 Report Date:
 03/11/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD		PD nits
General Chemistry - Westborou	igh Lab Asso	ciated samp	ole(s): 01-02	QC Batch IE	D: WG20	)37594-4	QC Sample:	L25124	92-01 Cli	ent ID:	MS Samp	le
Nitrogen, Nitrate/Nitrite	0.28	4	4.3	100		-	-		80-120	-		20
General Chemistry - Westborou Sample	igh Lab Asso	ciated samp	ole(s): 01-02	QC Batch IE	D: WG20	)37664-4	WG2037664-5	QC S	ample: L25	12807-(	01 Client	ID: M
Oil & Grease, Hem-Grav	ND	42.1	40	94		39	93		78-114	2		18
General Chemistry - Westborou Sample	igh Lab Asso	ciated samp	ole(s): 01-02	QC Batch IE	D: WG20	)37680-4	WG2037680-5	QC S	ample: L25	12807-(	01 Client	ID: M
Chromium, Hexavalent	0.004J	0.1	0.092	92		0.090	90		85-115	2		20
General Chemistry - Westboroບ Sample	igh Lab Asso	ciated samp	ole(s): 01-02	QC Batch IE	D: WG20	)37685-4	WG2037685-5	QC S	ample: L25	12807-0	01 Client	ID: M
Cyanide, Free	0.006J	0.25	0.256	102		0.260	104		80-120	2		20
General Chemistry - Westborou Sample	igh Lab Asso	ciated samp	ole(s): 01-02	QC Batch IE	D: WG20	)37775-3	WG2037775-4	QC S	ample: L25	12807-0	01 Client	ID: M
Cyanide, Total	0.002J	0.2	0.212	106		0.210	105		90-110	1		30



# Lab Duplicate Analysis Batch Quality Control

B

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2513323

 Report Date:
 03/11/25

Parameter	Native Sa	ample D	uplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-0	2 QC Batch ID:	WG2037594-3	QC Sample:	L2512492-01	Client ID:	DUP Sample
Nitrogen, Nitrate/Nitrite	0.28		0.28	mg/l	0		20
General Chemistry - Westborough Lab	Associated sample(s): 01-0	2 QC Batch ID:	WG2037664-3	QC Sample:	L2512807-01	Client ID:	DUP Sample
Oil & Grease, Hem-Grav	ND		ND	mg/l	NC		18
General Chemistry - Westborough Lab	Associated sample(s): 01-0	2 QC Batch ID:	WG2037680-3	QC Sample:	L2512807-01	Client ID:	DUP Sample
Chromium, Hexavalent	0.004	J	0.004J	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s): 01-0	2 QC Batch ID:	WG2037684-3	QC Sample:	L2512806-01	Client ID:	DUP Sample
Solids, Total Suspended	69.		66	mg/l	4		32
General Chemistry - Westborough Lab	Associated sample(s): 01-0	2 QC Batch ID:	WG2037685-3	QC Sample:	L2512807-01	Client ID:	DUP Sample
Cyanide, Free	0.006	J	0.005J	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s): 01-0	2 QC Batch ID:	WG2037775-5	QC Sample:	L2512807-01	Client ID:	DUP Sample
Cyanide, Total	0.002	J	ND	mg/l	NC		30

#### Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150

Serial\_No:03112517:19 Lab Number: L2513323 Report Date: 03/11/25

# Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

# **Cooler Information**

Cooler	Custody Seal
A	Present/Intact
В	Present/Intact
С	Present/Intact
D	Absent

# **Container Information**

Container Infe	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2513323-01A	Plastic 250ml H2SO4 preserved	D	<2	<2	2.7	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2513323-01B	Plastic 250ml NaOH preserved	D	>12	>12	2.7	Y	Absent		TCN-4500(14)
L2513323-01C	Plastic 250ml unpreserved	D	7	7	2.7	Y	Absent		-
L2513323-01D	Plastic 250ml HNO3 preserved	D	<2	<2	2.7	Y	Absent		AL-2008T(180),NI-2008T(180),ZN- 2008T(180),CU-2008T(180),HARDT- 2008(180),FE-2008T(180),PB- 2008T(180),CR-2008T(180)
L2513323-01E	Plastic 500ml unpreserved	D	7	7	2.7	Y	Absent		HEXCR-3500(1),FCN(1)
L2513323-01H	Amber 1L HCI preserved	D	NA		2.7	Y	Absent		OG-1664(28)
L2513323-01R	Vial Na2S2O3 preserved	D	NA		2.7	Y	Absent		624.1-PPM(7)
L2513323-01S	Vial Na2S2O3 preserved	D	NA		2.7	Y	Absent		624.1-PPM(7)
L2513323-01T	Vial Na2S2O3 preserved	D	NA		2.7	Y	Absent		624.1-PPM(7)
L2513323-01X	Plastic 120ml HNO3 preserved Filtrates	D	NA		2.7	Y	Absent		CR-2008S(180),NI-2008S(180)
L2513323-02A	Plastic 250ml H2SO4 preserved	D	<2	<2	2.7	Y	Absent		NO3/NO2-353(28),COD-410(28)
L2513323-02B	Plastic 250ml NaOH preserved	D	>12	>12	2.7	Y	Absent		TCN-4500(14)
L2513323-02C	Plastic 250ml unpreserved	D	7	7	2.7	Y	Absent		-
L2513323-02D	Plastic 250ml HNO3 preserved	D	<2	<2	2.7	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)
L2513323-02E	Plastic 500ml unpreserved	D	7	7	2.7	Y	Absent		HEXCR-3500(1),FCN(1)
L2513323-02H	Amber 1L HCI preserved	D	NA		2.7	Y	Absent		OG-1664(28)
L2513323-02R	Vial Na2S2O3 preserved	D	NA		2.7	Y	Absent		624.1-PPM(7)



Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

Serial\_No:03112517:19 *Lab Number:* L2513323 *Report Date:* 03/11/25

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2513323-02S	Vial Na2S2O3 preserved	D	NA		2.7	Y	Absent		624.1-PPM(7)
L2513323-02T	Vial Na2S2O3 preserved	D	NA		2.7	Υ	Absent		624.1-PPM(7)
L2513323-02X	Plastic 120ml HNO3 preserved Filtrates	D	NA		2.7	Y	Absent		CR-2008S(180),NI-2008S(180)



# Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

# Lab Number: L2513323

# **Report Date:** 03/11/25

# GLOSSARY

# Acronyms

Acronyms	
DL	<ul> <li>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.)</li> </ul>
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	<ul> <li>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.</li> </ul>
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	<ul> <li>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.</li> </ul>
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	<ul> <li>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.</li> </ul>
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

**Project Number:** US0043268.2150

#### Lab Number: L2513323 **Report Date:** 03/11/25

## Footnotes

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

#### Terms

1

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 Waterpreserved 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).
- С - 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.
- Е - 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.
- н - 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

Project Number: US0043268.2150

Lab Number: L2513323

**Report Date:** 03/11/25

## 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.)



 Lab Number:
 L2513323

 Report Date:
 03/11/25

# 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: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; <u>SCM</u>: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: <u>NPW:</u> Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: 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, SM4500CI-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: AI, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: AI, 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, ANÅB/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

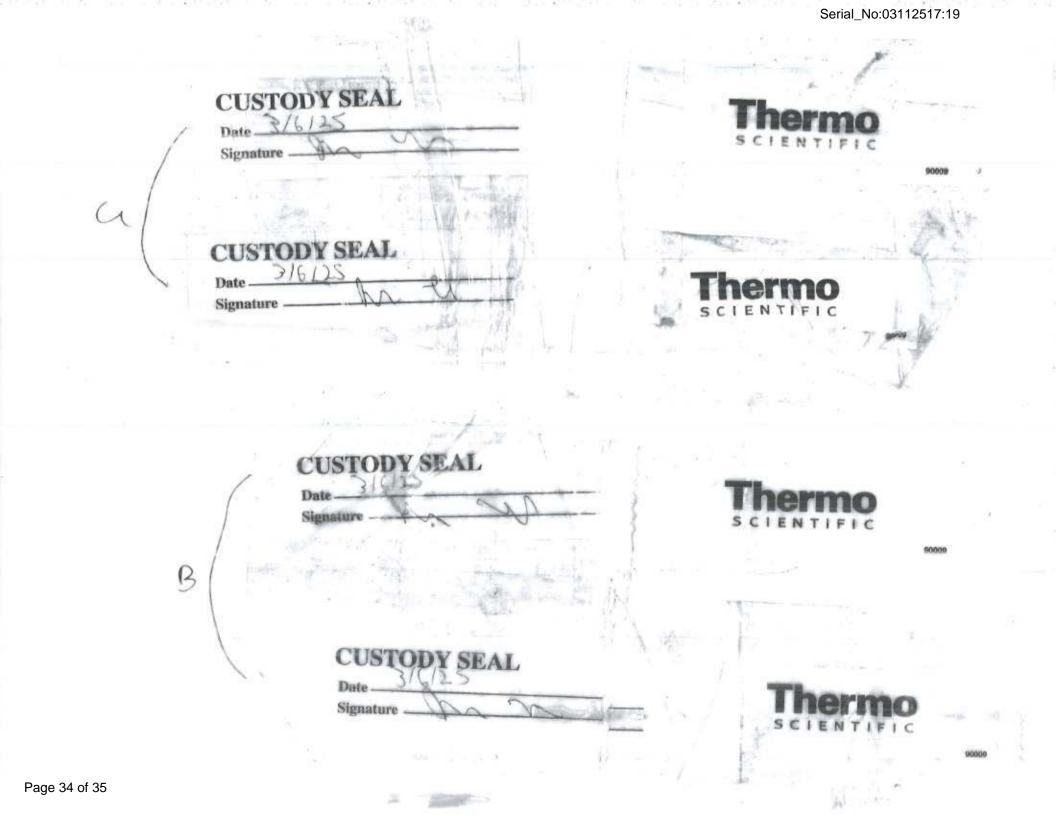
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For a complete listing of analytes and methods, please contact your Project Manager.

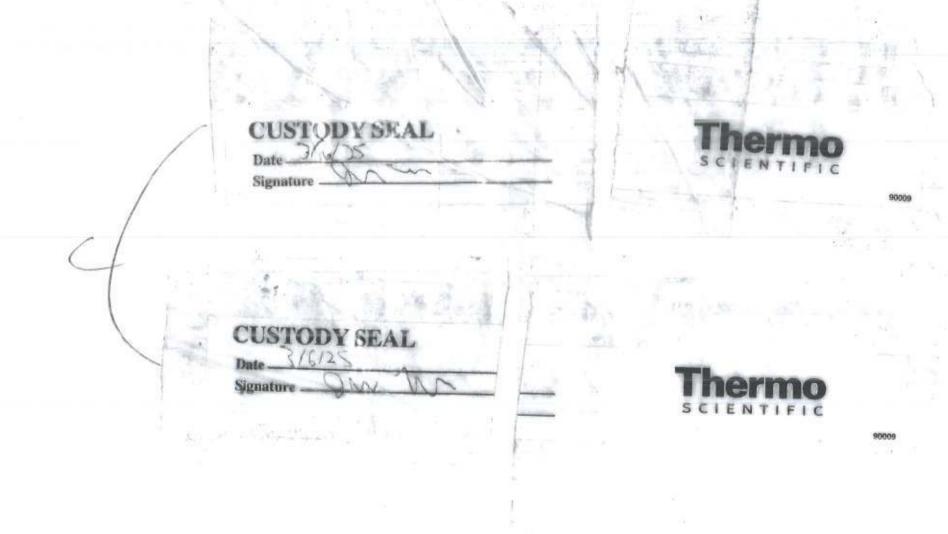
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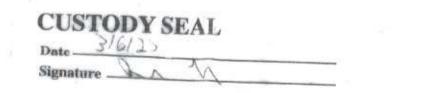
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