

SPS Technologies Abington PA March 5, 2025 Daily Surface Water and Outfall Sampling Results Report

SPS Technologies

2025-03-08



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1. Executive Summary

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

Surface Water Samples:

		Upstream Offsite SW Sample Location 1	Upstream Offsite SW Sample Location 2	SW Sample Location 3	High School Road Sample Location	Downstream SW Sample Location
Parameter	Units	Result	Result	Result	Result	Result
Toluene	mg/L	ND	ND	ND	ND	ND
2-Butanone (MEK)	mg/L	ND	ND	ND	ND	ND
Chromium, Trivalent	mg/L	ND	ND	ND	ND	ND
Chromium, Hexavalent	mg/L	ND	ND	0.003	ND	ND
Total Cyanide	mg/L	ND	ND	0.003	ND	ND
Free Cyanide	mg/L	ND	ND	ND	ND	ND
Oil & Grease	mg/L	ND	ND	ND	ND	ND
Total Chromium	mg/L	0.00029	0.00024	0.00026	0.0002	0.00018
Total Nickel	mg/L	0.00073	0.00144	0.00203	0.00256	0.00169
Dissolved Chromium	mg/L	0.0003	ND	ND	0.0002	ND
Dissolved Nickel	mg/L	0.001	0.0014	0.0018	0.0024	0.0017
Hardness	mg/L	216.7	295.4	226.9	227.3	198.9
рН	SU	7.88	7.87	7.17	6.87	6.52

Outfall Samples:

		Outfall 006
Parameter	Units	Result
Toluene	mg/L	ND
2-Butanone (MEK)	mg/L	ND
Chromium, Trivalent	mg/L	ND
Chromium, Hexavalent	mg/L	ND
Total Cyanide	mg/L	ND
Free Cyanide	mg/L	ND
Oil & Grease	mg/L	ND
Total Suspended Solids	mg/L	ND
Nitrate/Nitrite as Nitrogen	mg/L	3.7
Chemical Oxygen Demand	mg/L	ND
Total Aluminum	mg/L	0.01332
Total Chromium	mg/L	0.00031
Total Copper	mg/L	0.00205
Total Iron	mg/L	0.1804
Total Lead	mg/L	0.00047
Total Nickel	mg/L	0.00136

Total Zinc	mg/L	0.02930
Dissolved Chromium	mg/L	ND
Dissolved Nickel	mg/L	0.0012
Hardness	mg/L	189.3
рН	SU	7.31

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**.¹ The infield measurements of pH are provided on **Table 1** and **2**.

¹ Water quality parameters were recorded at Outfall 009 in the afternoon after the daily sampling had been conducted. The field data for Outfall 009 is provided in Appendix A. Analytical results of Outfall 009 sampling will be provided in a subsequent report.

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 C	pstream Offsite SW Sample			ffsite SW	Sample	SM	/ Sample		High Scho	ol Road S	Sample	Downstre	am SW S	ample	
S	Sample Locatio	n Lo	ocation 1		Lo	cation 2		Lo	cation 3	High School Road Sample Location Location SW4_030525 12512242-02 L2512242-02 3/5/2025 RL Result Q RL Result Q 0.001 ND 0.001 0.01 ND 0.01 0.02 ND 0.02				L	ocation		
	Field Sample I	D SW	/2_030525		SW	1_030525		SW	3_030525	5	SW	4_030525		SW	5_030525		
	Lab Sample I	D L2	512242-04		L25	12242-05		L25	512242-03		L25	512242-02		L25	12242-01		
	Sampling Dat	e	8/5/2025		3	/5/2025		3	/5/2025		3	8/5/2025		3	/5/2025		
	Matri	x	Water		Water		Water			Water			Water		Water		
Parameter	Units	Result	Result Q RL		Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	
Volatile Organic Compo	ounds								-				-				
Toluene	mg/L	ND		0.001	ND		0.001	ND		0.001	ND		0.001	ND		0.001	
2-Butanone (MEK)	2-Butanone (MEK) mg/L			0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01	
General Chemistry	eneral Chemistry																
Chromium, Trivalent	mg/L	ND	ND 0.01		ND		0.01	ND		0.01	ND		0.01	ND		0.01	
Chromium, Hexavalent	im, Hexavalent mg/L ND 0.01		0.01	ND		0.01	0.003	J	0.01	ND		0.01	ND		0.01		
Total Cyanide	mg/L	ND		0.005	ND		0.005	0.003	J	0.005	ND		0.005	ND		0.005	
Free Cyanide	mg/L	ND		0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01	
Oil & Grease	mg/L	ND		4	ND		4	ND		4.4	ND		4	ND		4	
Total Metals																	
Total Chromium	mg/L	0.00029	J	0.001	0.00024	J	0.001	0.00026	J	0.001	0.0002	J	0.001	0.00018	J	0.001	
Total Nickel	mg/L	0.00073	J	0.002	0.00144	J	0.002	0.00203		0.002	0.00256		0.002	0.00169	J	0.002	
Dissolved Metals	·																
Dissolved Chromium	mg/L	0.0003	J	0.001	ND		0.001	ND		0.001	0.0002	J	0.001	ND		0.001	
Dissolved Nickel	mg/L	0.001	J	0.002	0.0014	J	0.002	0.0018	J	0.002	0.0024		0.002	0.0017	J	0.002	
Total Hardness	Hardness																
Hardness	dness mg/L 216.7 0.54		0.54	295.4		0.54	226.9		0.54	227.3		0.54	198.9		0.54		
Field Parameters																	
pH ¹	SU	7.88			7.87			7.17			6.87			6.52			

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

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

	Sample Location	Ou		
	Field Sample ID	OF00		
	Lab Sample ID	L25	12235-02	
	Sampling Date	3/		
	Matrix			
Parameter	Result	Q	RL	
Volatile Organic Compounds				
Toluene	mg/L	ND		0.001
2-Butanone (MEK)	mg/L	ND		0.01
General Chemistry				
Chromium, Trivalent	mg/L	ND		0.01
Chromium, Hexavalent	mg/L	ND		0.01
Total Cyanide	mg/L	ND		0.005
Free Cyanide	mg/L	ND	UJ	0.01
Oil & Grease	mg/L	ND		4
Total Suspended Solids	mg/L	ND		5
Nitrate/Nitrite as Nitrogen	mg/L	3.7		0.1
Chemical Oxygen Demand	mg/L	ND		20
Total Metals				
Total Aluminum	mg/L	0.01332		0.01
Total Chromium	mg/L	0.00031	J	0.001
Total Copper	mg/L	0.00205		0.001
Total Iron	mg/L	0.1804		0.05
Total Lead	mg/L	0.00047	J	0.001
Total Nickel	mg/L	0.00136	J	0.002
Total Zinc	mg/L	0.0293		0.005
Dissolved Metals				
Dissolved Chromium	mg/L	ND		0.001
Dissolved Nickel	mg/L	0.0012	J	0.002
Total Hardness				
Hardness	mg/L	189.3		0.54
Field Parameters				
pH ¹	SU	7.31		

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 UJ - Non-Detect Result, RL is Estimated APPENDIX A – DAILY SURFACE WATER AND OUTFALL SAMPLING LOGS

SURFACE WATER/OUTFALL SAMPLE FIELD INFORMATION FORM

Site:	SPS												
Location:	Asington	P/+					_	Additi	ional Note	S:			
Meter (Transfer:	US 0043268	1.2150	2010-	180									
Meter Collinsor #	: Horiba U-52 #	S/N			_								
Flow Motor	2800												
Sampling Data m	FH950 Meter #	S/N:		5									
Sampler(a)	: 3/5/25 Q						_						
Sampling Deuter	BL, EMIZ, AL	49, 127	rM										
Sample Characteria	Telescope A	de and	dipp	the las	le								
Analytical Parameter	ucs: Clear no	odor	G Sh	15, SW45	W2, SW1	030525	ix clear	1000	of comp el	PPA QQ	12 020005		
and yildar Parameter	15.		()	, ,		4		/110 -001	or / June Sh	un es	V3. 0303 LS	•	
4												-	-
Weather Conditions	SEVE	-lander (-								
e en allorio.		lovery											
			1										
OTATION (STATION			TOTAL	CANDIE	1 MAATED							
STATION /	DESCRIPTION	DATE	TIME	DEDTU	SAMPLE	WATER							
SAMPLE	(stream/lake/river)	mm/dd/w	brmin	inches	DEPTH	I EMP	SALINITY	PH	COND	ORP	TURBIDITY	DO	VELOCITY
GAT DOTT	Carla	21-12-	14.1141	Inchies		Ceisius	ppt	50	mS/cm	mv	NTU	mg/L	ft/sec
201-0756	Creek	2/5145	0915	13	\$6.5	10.55	0.3	6.52	0.689	238	0.0	7.18	A uu
San	nple Characteristics:	clear, n	o odor		e ^{nte}	1.5						/	0.44
514-030525	Creek	3/5/25	0945	2)	36	10.35	0.4	687	0.747	200	CLA.	740	0.20
San	nple Characteristics:	Clear, V	noodor	12		1010		0.01	0.112	200	0.0	7.710	Vits
SW3-030525	Creell	3/5725	1025	19	9.5	11-12	0-3	7.17	0.647	153	0.0	1.60	0.91
San	nple Characteristics:	clear, r	Jobo Ol	, Some	sheen.							0.21	0.10
512-030525	Copela	3/5/25	1115	5.5	2.75	11.97	0.3	7 90	0 (2)	177	0.0	0.311	0.25
Sam	ple Characteristics:	clear,	no odor					T.OD	0.62	TT	0.0	9.74	0.21
Cul 2 ME	CAROLO	110/20	1100										1
)M-02020	theat	22 16 10	(150	12	6	10.94	0.4	7.87	0.897	191	0.0	8.68	0.93
Sam	nple Characteristics:	clear, n	o obor									1.00	
											e		
									-				
				·		1.1							
1.		10	7-	~									
Doma MASTA		11 /		/									
NUINNI	[n	1										111

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SURFACE WATER/OUTFALL SAMPLE FIELD INFORMATION FORM

Site: Location: Project Number: Meter/Type/Serial # Meter Calibrated @ Flow Meter	SPS Jenkintown, P Usooy 32 68.7 Horiba U-52 # 24 5800 FH950 Meter # \$3	A USD 1321 S/N	SV5kS	JTG	i da A			Additio Plo;	onal Notes	rn "			
Sampling Date/Time	: 3/5/25 QI	050	182 64	100 4154			- 3	$q_{2,kn}^{2}$					
Sampler(s):	BL, RTM, EN	R, AUM			ć.			E. M				10 ¹⁰ 4	a 43
Sample Characterist	Sample Characteristics: (Pac an aloc @ Accad(Accad)											, ¹² Ah	3 4
Analytical Paramete	5						4						
4	total Suspend	es solide	chemical	rsolved N	D BSO	lived Cr.	MEK,	Toluene, to	tal hardni	ess total Zn			
			Chanca	Oxygen a	temana, N	inite. Initia	ue as N,	Total A	L, Total	Cu, To	tal Fern Tota	il Pb, S	recinite Gr6+
Weather Conditions:	overcast, 50s	°F			1 1	-				,	NG	4	1849 - 174
	1 70					-			Sec. 3				- 11 - 14 - 14 - 14 - 14 - 14 - 14 - 14
	OTATION												-1
STATION /	DESCRIPTION	DATE	-	TOTAL	SAMPLE	WATER							1 N F
SAMPLE	(stream/lake/river)		IIME	DEPTH	DEPTH	TEMP	SALINITY	pН	COND	ORP	TURBIDITY	DO *	VELOCITY
N 101 -2005		2KLE		Inches		Celsius	ppt	SU	mS/cm	mV	NTU	mg/L	ft/sec
006-0190	OSITAL	2/5/25	1050	. –		11.58	0-3	7.31	0.593	127	0.0	6.39	0.66
Sam	ple Characteristics:	clear, n	lo odor					10	16 - 1997 -				00
OF009-030525	outfail	3/5/25	1615	1	-	14.13	1.3	8.15	2.51	131	1751.7	6.01	0,67
Sam	ple Characteristics:	Sec. 1 Sec. 1	14 Acres -										
Sam	ple Characteristics:						L						
· · · · · · · · · · · · · · · · · · ·													
Sam	ple Characteristics:												
	4				I						1		
							-						
Sam	ple Characteristics:					3		-					
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	A.				and an an	2 2		7 2.20	- lie				

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APPENDIX B – DATA VALIDATION REPORT

Pro	oject Name: SPS Technologies	l	Proje SPS	e ct Nun Client S	n ber/Phase/Task: US0043268.2150-US- Support. Task 01					
Re Da Ch La	viewing Company: WSP USA ta Evaluator: Candace Cocca ecked by: Julie Lehrman boratory: Pace Analytical LLC		Project Manager: Tovah Karl Data Evaluation Date: March 7, 2025 Review Date: March 7, 2025 Lab SDG #: L2511235							
Ма	trix: 🖂 Aqueous 🛛 Soil 🛛 Sediment 🗆] Was	te	🗆 Air	□ Other:					
An	alytical Methods: See Table B-1									
Sai	mple Information: See Table B-1									
Wo	ork Plan or QAPP: SPS Technologies Abington P/	A Surfa	ace V	Vater a	nd Outfall Sampling Plan (WSP, 2025)					
Dat	ta Validation Guidance:									
	LISEPA National Functional Guidelines (NEG)	for Or	nani	s Super	fund Methods Data Review (Nov. 2020)					
			Boy		2020)					
	USEPA NEG for morganic Superfund Methods	s Dala	Rev	iew (inc	w. 2020)					
2) 2)	COC complete and correct?	YES		NA	COMMENT					
a) b)	COC documents release of custody									
D)	(signed and dated)?	\boxtimes								
c)	Field QC types provided (note types)?	\boxtimes			ТВ					
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						

 \boxtimes

 \boxtimes

d) Were detected concentrations less than the QL qualified by the laboratory?



An	alytical Assessment	YES	NO	NA	COMMENT
e)	Were detected concentrations above the		\boxtimes		
f)	Did the laboratory satisfy the requested	5-7	_		
,	sensitivity requirements?	X			
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	
Su Co	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			OF006_030525
b)	Were proper analytes reported in the MS/MSD?	\boxtimes			

MS	MSDs	YES	NO	NA	COMMENTS
c)	Were project-specific MS/MSD recoveries within control limits?		\boxtimes		See Note 1
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			OF006_030525
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	
ICF	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 and in Table B-2.

1. The matrix spike performed on sample OF006_030525 had an 71% recovery for free cyanide, which was below QC criteria (80-120%). Cyanide was not detected in the associated sample. Following Inorganic Guidelines, the sample result was qualified as estimated (UJ).

Data Qualification: See Table B-2

										Analyses/	/Parame	eters					
						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	5004.4	E 440.4	SM	F050.0	E4004D	000.0	000.0	000.0	4500CN-	4500CN-	014.0500	SM
Job	Field Identification	Matrix	Identification	QC Samples	Date	E024.1	E410.4	2540D	E353.2	E1004B	200.8	200.8	200.8	E(M)	CE	SIM 3500	3500CR-B
L2512235	TBOF_030525	WS	L2512235-01	TB	3/5/2025	X											
L2512235	OF006_030525	WS	L2512235-02		3/5/2025	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 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
L2512235	OF006_030525	Free Cyanide				UJ	Matrix spike recovery below criteria.
L2512235	All samples						Laboratory applied U-qualifiers indicating non-detect results and J-qualifiers indicating results below the reporting limit are retained unless other qualifications are indicated in this table. All other laboratory qualifiers are removed.

Abbreviations:

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

UJ: Estimated, non-detect

Pro	oject Name : SPS ⁻	Fechnologies			Proje SPS	e ct Nu Client	umber/Phase/Task: US0043268.2150-US at Support. Task 01				
Re Da Ch La	viewing Company ta Evaluator: Can ecked by: Julie Le boratory: Pace An	/: WSP USA dace Cocca ehrman alytical LLC			Project Manager: Tovah Karl Data Evaluation Date: March 7, 2025 Review Date: March 7, 2025 Lab SDG #: L2512242						
Ма	trix: 🖂 Aqueous	🗆 Soil	□ Sediment	□ Was	te	□ Air	r □ Other:				
An	alytical Methods:	See Table B	-1								
Sa	- mple Information:	See Table B	-1								
We	ork Plan or OAPP	SPS Techno	Jogies Abington	PA Surf	ace l	Nater :	r and Outfall Sampling Plan (WSP, 2025)				
	to Validation Guid										
Da						0					
	USEPA Nation	al Functional	Guidelines (NF	G) for O	rgani	c Supe	perfund Methods Data Review (Nov. 2020)				
	USEPA NFG f	or Inorganic S	Superfund Metho	ods Data	Rev	iew (N	Nov. 2020)				
СС	C and Sample Re	eceipt		YES	NO	NA	COMMENT				
a)	COC complete an	d correct?		\boxtimes							
b)	COC documents (signed and dated	release of cu l)?	stody	\boxtimes							
c)	Field QC types pr	ovided (note	types)?	\boxtimes			ТВ				
d)	Did the cooler cor	ntents match	the COC?	\boxtimes							
e)	Were samples rec	ceived in goo	d condition?	\boxtimes							
f)	Were cooler temp	eratures with	in control limits?	?							
Da	ta Package Inforn	nation		YES	NO	NA	COMMENT				
a)	Laboratory name	and location	documented?	\boxtimes							
b)	All samples on CO	DC reported i	n data packageʻ	? 🛛							
c)	Requested analyt	ical methods	used?	\boxtimes							
d)	Requested sampl	e preparatior	methods used?	?							
e)	Requested analyt	e list reported	1?	\boxtimes							
f)	Requested units r	eported?		\boxtimes							
g)	Did the laboratory	define the q	ualifiers used?	\boxtimes							
h)	Data package cor to complete the da	ntains all infoi ata quality re	mation necessa view?	ary 🖂							
An	alytical Assessm	ent		YES	NO	NA	COMMENT				
a)	Solid samples rep	orted on a dr	y-weight basis?			\boxtimes					
b)	Were solid sample acceptable?	es percent m	oisture criteria			\boxtimes					
c)	Were sample dilu	tions noted?		\boxtimes							

 \boxtimes

wsp

An	alytical Assessment	YES	NO	NA	COMMENT
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		
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	S 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	
Su Co	nrogates 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
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	S/MSDs	YES	NO	NA	COMMENTS
a)	Were project-specific MS (and MSD) reported?	\boxtimes			SW5_030525 (dissolved metals, oil & grease, hex chrome only)
b)	Were proper analytes reported in the MS/MSD?	\boxtimes			g. case, nex enterne entry

MS	S/MSDs	YES	NO	NA	COMMENTS
c)	Were project-specific MS/MSD recoveries within control limits?	\boxtimes			Only parent samples from SDG L2512242 evaluated
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_030525 (dissolved metals, hexavalent chromium only)
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	
Οv	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.

Data Qualification: No qualifications

								Analyse	es/Paran	neters				
						MEK and Toluene	Oil and Grease	Total Metals	Dissolved Metals	Total Hardness	Free Cyanide	Total Cyanide	Trivalent Chromium	Hexavalent Chromium
Laboratory			Lab		Collection						4500CN-	4500CN-	SM	SM
Job	Field Identification	Matrix	Identification	QC Samples	Date	E624.1	E1664B	200.8	200.8	200.8	E(M)	CE	3500	3500C
L2512242	SW5_030525	WS	L2512242-01		3/5/2025	Х	Х	Х	Х	Х	Х	Х	Х	Х
L2512242	SW4_030525	WS	L2512242-02		3/5/2025	Х	Х	Х	Х	Х	Х	Х	Х	X
L2512242	SW3_030525	WS	L2512242-03		3/5/2025	Х	Х	Х	Х	Х	Х	Х	Х	X
L2512242	SW2_030525	WS	L2512242-04		3/5/2025	X	X	Х	X	X	X	X	Х	X
L2512242	SW1_030525	WS	L2512242-05		3/5/2025	X	X	X	X	X	X	X	Х	X
L2512242	TBSW_030525	WQ	L2512242-06	TB	3/5/2025	X								

Notes:

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

2) Total Metals include:chromium and nickel

3) Dissolved Metals include:chromium and nickel

Abbreviations:

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

Table B-2 Qualifier Summary Table

Laboratory Job	Sample Name	Analyte	New Result	New MDL	New RL	Qualifier	Reason
L2512242		-	l	No Qualifiers	Required		
L2512242	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:	L2512235
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:	03/07/25

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:03072516:13

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2512235

 Report Date:
 03/07/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2512235-01	TBOF_030525	WATER	JENKINTOWN, PA	03/05/25 00:00	03/05/25
L2512235-02	OF006_030525	WATER	JENKINTOWN, PA	03/05/25 10:50	03/05/25



Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150 Lab Number: L2512235 Report Date: 03/07/25

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:
 L2512235

 Report Date:
 03/07/25

Case Narrative (continued)

Report Submission

March 07, 2025: This final report includes the results of all requested analyses. March 06, 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.

Cyanide, Free

The WG2037210-4 MS recovery performed on L2512235-02 is outside the acceptance criteria for cyanide, free (71%); however, the associated LCS recovery is within criteria. No further action was taken.

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

Authorized Signature:

Jufani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative

Date: 03/07/25

ORGANICS



VOLATILES



			Serial_No:	03072516:13
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512235
Project Number:	US0043268.2150		Report Date:	03/07/25
		SAMPLE RESULTS		
Lab ID:	L2512235-01		Date Collected:	03/05/25 00:00
Client ID:	TBOF_030525		Date Received:	03/05/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/06/25 08:42			
Analyst:	JKH			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - W	estborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifie	Acce Cr	ptance iteria
Pentafluorobenzene			88		6	0-140
Fluorobenzene			78		6	0-140
4-Bromofluorobenzene			112		6	0-140

Pace

			Serial_No	0:03072516:13
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512235
Project Number:	US0043268.2150		Report Date:	03/07/25
		SAMPLE RESULTS		
Lab ID:	L2512235-02		Date Collected:	03/05/25 10:50
Client ID:	OF006_030525		Date Received:	03/05/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/06/25 12:28			
Analyst:	JKH			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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	Acce Cr	ptance iteria
Pentafluorobenzene			80		6	60-140
Fluorobenzene			73		6	60-140
4-Bromofluorobenzene			115		6	60-140

Pace

Project Name:	SPS TECHNOLOGIES	Lab Number:	L2512235
Project Number:	US0043268.2150	Report Date:	03/07/25

Method Blank Analysis Batch Quality Control

Analytical Method:128,624.1Analytical Date:03/06/25 08:10Analyst:JKH

Parameter	Result	Qualifier	Units	RL	MDL	
Volatile Organics by GC/MS - West	borough Lat	o for sample	e(s): 01-02	Batch:	WG2037453-4	
Toluene	ND		mg/l	0.0010	0.00031	
2-Butanone	ND		mg/l	0.010	0.0010	

		Acceptance		
Surrogate	%Recovery	Qualifier	Criteria	
Pentafluorobenzene	87		60-140	
Fluorobenzene	78		60-140	
4-Bromofluorobenzene	113		60-140	

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Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

 Lab Number:
 L2512235

 Report Date:
 03/07/25

	LCS		LCSD		%Recovery			RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	
			04.00 Detek	14/0000	7450.0				
Volatile Organics by GC/MS - Westborou	gn Lab Associat	ed sample(s)	: 01-02 Batch	: WG203	37453-3				
Toluene	130		-		70-130	-		41	
2-Butanone	84		-		60-140	-		30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria	
Pentafluorobenzene	95		60-140	
Fluorobenzene	89		60-140	
4-Bromofluorobenzene	114		60-140	


METALS



Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512235
Project Number:	US0043268.2150		Report Date:	03/07/25
		SAMPLE RESULTS		
Lab ID:	L2512235-02		Date Collected:	03/05/25 10:50
Client ID:	OF006_030525		Date Received:	03/05/25
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 - Mans	sfield Lab										
Aluminum, Total	0.01332		mg/l	0.01000	0.00327	1	03/06/25 08:46	03/06/25 12:27	EPA 3005A	3,200.8	NTB
Chromium, Total	0.00031	J	mg/l	0.00100	0.00017	1	03/06/25 08:46	03/06/25 12:27	EPA 3005A	3,200.8	NTB
Copper, Total	0.00205		mg/l	0.00100	0.00038	1	03/06/25 08:46	03/06/25 12:27	EPA 3005A	3,200.8	NTB
Iron, Total	0.1804		mg/l	0.05000	0.01910	1	03/06/25 08:46	03/06/25 12:27	EPA 3005A	3,200.8	NTB
Lead, Total	0.00047	J	mg/l	0.00100	0.00034	1	03/06/25 08:46	03/06/25 12:27	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00136	J	mg/l	0.00200	0.00055	1	03/06/25 08:46	03/06/25 12:27	EPA 3005A	3,200.8	NTB
Zinc, Total	0.02930		mg/l	0.00500	0.00341	1	03/06/25 08:46	03/06/25 12:27	EPA 3005A	3,200.8	NTB
Total Hardness (by	calculatio	n) - Mansfi	eld Lab								
Hardness	189.3		mg/l	0.5400	NA	1	03/06/25 08:46	03/06/25 12:27	EPA 3005A	3,200.8	NTB

General Chemistry - Mansfield Lab									
Chromium, Trivalent	ND	mg/l	0.010	0.003	1	03/06/25 12:27	NA	107,-	
Dissolved Metals - M	ansfield Lab								

Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/07/25 10:09 03/07/25 13:51 EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0012	J	mg/l	0.0020	0.0006	1	03/07/25 10:09 03/07/25 13:51 EPA 3005A	3,200.8	NTB

Pace

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2512235

 Report Date:
 03/07/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield	Lab for sample(s):	02 Batc	h: WG20	37208-′	1				
Aluminum, Total	ND	mg/l	0.01000	0.00327	1	03/06/25 08:46	03/06/25 12:17	3,200.8	NTB
Chromium, Total	ND	mg/l	0.00100	0.00017	1	03/06/25 08:46	03/06/25 12:17	3,200.8	NTB
Copper, Total	ND	mg/l	0.00100	0.00038	1	03/06/25 08:46	03/06/25 12:17	3,200.8	NTB
Iron, Total	ND	mg/l	0.05000	0.01910	1	03/06/25 08:46	03/06/25 12:17	3,200.8	NTB
Lead, Total	ND	mg/l	0.00100	0.00034	1	03/06/25 08:46	03/06/25 12:17	3,200.8	NTB
Nickel, Total	ND	mg/l	0.00200	0.00055	1	03/06/25 08:46	03/06/25 12:17	3,200.8	NTB
Zinc, Total	ND	mg/l	0.00500	0.00341	1	03/06/25 08:46	03/06/25 12:17	3,200.8	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qu	ualifier U	nits	RL	MDL	Dilution Factor	n Da r Prej	ate pared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calc	ulation) - Ma	nsfield Lab	for sam	ple(s): 0)2 Bat	tch: WC	G2037208	-1			
Hardness	ND		mg/l	0.5400	NA	1	03/06	25 08:46	03/06/25 12:17	3,200.8	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals -	Mansfield Lab	for sample(s): 02	Batch: V	VG2037	625-1				
Chromium, Dissolved	ND	mg/l	0.0010	0.0002	1	03/07/25 10:09	03/07/25 13:28	3,200.8	NTB
Nickel, Dissolved	ND	mg/l	0.0020	0.0006	1	03/07/25 10:09	03/07/25 13:28	3,200.8	NTB

Prep Information

Digestion Method: EPA 3005A

Pace

Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150 Lab Number: L2512235

Report Date: 03/07/25

Parameter	LCS %Recovery	Qual %	LCSD Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated samp	ele(s): 02 Bat	tch: WG20372	08-2					
Aluminum, Total	90		-		85-115	-		
Chromium, Total	99		-		85-115	-		
Copper, Total	106		-		85-115	-		
Iron, Total	97		-		85-115	-		
Lead, Total	94		-		85-115	-		
Nickel, Total	104		-		85-115	-		
Zinc, Total	101		-		85-115	-		
Total Hardness (by calculation) - Mansfield Lab	Associated	sample(s): 02	Batch: WG2	2037208-2				
Hardness	93		-		85-115	-		
Dissolved Metals - Mansfield Lab Associated	sample(s): 02	Batch: WG2	037625-2					
Chromium, Dissolved	92		-		85-115	-		
Nickel, Dissolved	99		-		85-115	-		

Pace

Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150 Lab Number: L2512235 **Report Date:** 03/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits	RPD Qual	RPD Limits
Total Metals - Mansfield Lab A	ssociated san	nple(s): 02	QC Batch I	D: WG203720)8-3 C	C Sample	: L2512235-02	Client ID: OF006	6_030525	
Aluminum, Total	0.01332	2	1.762	87		-	-	70-130	-	20
Chromium, Total	0.00031J	0.2	0.1945	97		-	-	70-130	-	20
Copper, Total	0.00205	0.25	0.2614	104		-	-	70-130	-	20
Iron, Total	0.1804	1	1.140	96		-	-	70-130	-	20
Lead, Total	0.00047J	0.53	0.5062	96		-	-	70-130	-	20
Nickel, Total	0.00136J	0.5	0.5088	102		-	-	70-130	-	20
Zinc, Total	0.02930	0.5	0.5253	99		-	-	70-130	-	20
Total Hardness (by calculation OF006_030525	n) - Mansfield L	ab Associa	ited sample(s	s): 02 QC Ba	atch ID:	WG203720	08-3 QC San	nple: L2512235-02	Client ID:	
Hardness	189.3	66.2	244.4	83		-	-	70-130	-	20
Dissolved Metals - Mansfield L	_ab Associated	d sample(s)	: 02 QC Ba	atch ID: WG20	37625-3	B QC Sa	mple: L251224	2-01 Client ID: M	IS Sample	
Chromium, Dissolved	ND	0.2	0.1845	92		-	-	70-130	-	20
Nickel, Dissolved	0.0017J	0.5	0.4863	97		-	-	70-130	-	20



Lab Duplicate Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual R	PD Limits
Total Metals - Mansfield Lab Associated sample(s): 02	QC Batch ID: WG	2037208-4 QC Sample: L2	2512235-02 Clie	ent ID: OF	006_030525	
Aluminum, Total	0.01332	0.01276	mg/l	4		20
Chromium, Total	0.00031J	0.00037J	mg/l	NC		20
Copper, Total	0.00205	0.00205	mg/l	0		20
Iron, Total	0.1804	0.1807	mg/l	0		20
Lead, Total	0.00047J	0.00047J	mg/l	NC		20
Nickel, Total	0.00136J	0.00135J	mg/l	NC		20
Zinc, Total	0.02930	0.02901	mg/l	1		20
Total Hardness (by calculation) - Mansfield Lab Associate OF006_030525	ed sample(s): 02	QC Batch ID: WG2037208-	4 QC Sample:	L251223	5-02 Client IE):
Hardness	189.3	192.6	mg/l	2		20
Dissolved Metals - Mansfield Lab Associated sample(s):	02 QC Batch ID:	WG2037625-4 QC Sampl	e: L2512242-01	Client ID	: DUP Samp	e
Chromium, Dissolved	ND	ND	mg/l	NC		20
Nickel, Dissolved	0.0017J	0.0017J	mg/l	NC		20



INORGANICS & MISCELLANEOUS



 Lab Number:
 L2512235

 Report Date:
 03/07/25

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

SAMPLE RESULTS

Lab ID:	L2512235-02	Date Collected:	03/05/25 10:50
Client ID:	OF006_030525	Date Received:	03/05/25
Sample Location:	JENKINTOWN, PA	Field Prep:	Not Specified

Sample Depth: Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westboro	ugh Lab)								
Solids, Total Suspended NI)		mg/l	5.0	NA	1	-	03/06/25 06:49	121,2540D	BAY
Cyanide, Total NI)		mg/l	0.005	0.001	1	03/06/25 07:20	03/06/25 11:14	121,4500CN-CE	JER
Cyanide, Free NI)		mg/l	0.010	0.003	1	-	03/06/25 07:00	121,4500CN-	KAF
Nitrogen, Nitrate/Nitrite 3.	7		mg/l	0.10	0.046	1	-	03/06/25 07:07	E(M) 44,353.2	KAF
Chemical Oxygen Demand NI)		mg/l	20	6.0	1	03/06/25 10:00	03/06/25 14:02	44,410.4	CVN
Oil & Grease, Hem-Grav NI)		mg/l	4.0	4.0	1	03/06/25 07:33	03/06/25 09:12	140,1664B	TPR
Chromium, Hexavalent NI)		mg/l	0.010	0.003	1	03/06/25 09:15	03/06/25 09:29	121,3500CR-B	CAR

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2512235

 Report Date:
 03/07/25

Method Blank Analysis Batch Quality Control

Parameter	Result Q	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab	for sam	nple(s): 02	Batch:	WG20	37160-1				
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	03/06/25 04:02	44,353.2	KAF
General Chemistry - Wes	stborough Lab	for sam	nple(s): 02	Batch:	WG20	37210-1				
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/06/25 07:00	121,4500CN-E(N	/) KAF
General Chemistry - Wes	stborough Lab	for sam	nple(s): 02	Batch:	WG20	37218-1				
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	03/06/25 06:49	121,2540D	BAY
General Chemistry - Wes	stborough Lab	for sam	nple(s): 02	Batch:	WG20	37245-1				
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/06/25 07:20	03/06/25 11:11	121,4500CN-CE	E JER
General Chemistry - Wes	stborough Lab	for sam	nple(s): 02	Batch:	WG20	37246-1				
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/06/25 07:33	03/06/25 09:00	140,1664B	TPR
General Chemistry - Wes	stborough Lab	for sam	nple(s): 02	Batch:	WG20	37312-1				
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/06/25 09:15	03/06/25 09:29	121,3500CR-B	CAR
General Chemistry - Wes	stborough Lab	for sam	nple(s): 02	Batch:	WG20	37326-1				
Chemical Oxygen Demand	ND		mg/l	20	6.0	1	03/06/25 10:00	03/06/25 14:00	44,410.4	CVN

Lab Control Sample Analysis Batch Quality Control

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2512235

 Report Date:
 03/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
General Chemistry - Westborough Lab Assoc	iated sample(s):	02	Batch: WG2037160-2	2					
Nitrogen, Nitrate/Nitrite	102		-		90-110	-			
General Chemistry - Westborough Lab Assoc	iated sample(s):	02 6	Batch: WG2037210-2	2					
Cyanide, Free	97		-		90-110	-			
General Chemistry - Westborough Lab Assoc	iated sample(s):	02 6	Batch: WG2037218-2	2					
Solids, Total Suspended	92		-		80-120	-			
General Chemistry - Westborough Lab Assoc	iated sample(s):	02	Batch: WG2037245-2	2					
Cyanide, Total	100				90-110	-			
General Chemistry - Westborough Lab Assoc	iated sample(s):	02	Batch: WG2037246-2	2					
Oil & Grease, Hem-Grav	100		-		78-114	-		18	
General Chemistry - Westborough Lab Assoc	iated sample(s):	02 E	Batch: WG2037312-2	2					
Chromium, Hexavalent	100		-		85-115	-		20	
General Chemistry - Westborough Lab Assoc	iated sample(s):	02	Batch: WG2037326-2	2					
Chemical Oxygen Demand	95		-		90-110	-			



Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150 Lab Number: L2512235 **Report Date:** 03/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recovery Qual Limits R	RPD RPD Qual Limits
General Chemistry - Westborou	gh Lab Asso	ciated samp	ole(s): 02	QC Batch ID:	WG2037160-4	QC Sample: L25	11733-01 Client ID:	MS Sample
Nitrogen, Nitrate/Nitrite	9.3	4	13	110	-	-	80-120	- 20
General Chemistry - Westborou	gh Lab Asso	ciated samp	ole(s): 02	QC Batch ID:	WG2037210-4	QC Sample: L25	12235-02 Client ID:	OF006_030525
Cyanide, Free	ND	0.25	0.178	71	Q -	-	80-120	- 20
General Chemistry - Westborou	gh Lab Asso	ciated samp	ole(s): 02	QC Batch ID:	WG2037245-3	QC Sample: L25	12235-02 Client ID:	OF006_030525
Cyanide, Total	ND	0.2	0.207	104	-	-	90-110	- 30
General Chemistry - Westborou	gh Lab Asso	ciated samp	ole(s): 02	QC Batch ID:	WG2037246-4	QC Sample: L25	12242-01 Client ID:	MS Sample
Oil & Grease, Hem-Grav	ND	40	40	100	-	-	78-114	- 18
General Chemistry - Westborou	gh Lab Asso	ciated samp	ole(s): 02	QC Batch ID:	WG2037312-4	QC Sample: L25	12235-02 Client ID:	OF006_030525
Chromium, Hexavalent	ND	0.1	0.093	93	-	-	85-115	- 20
General Chemistry - Westborou	gh Lab Asso	ciated samp	ole(s): 02	QC Batch ID:	WG2037326-3	QC Sample: L25	12235-02 Client ID:	OF006_030525
Chemical Oxygen Demand	ND	238	220	94	-	-	90-110	- 20



Lab Duplicate Analysis Batch Quality Control

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

Lab Number:

 Lab Number:
 L2512235

 Report Date:
 03/07/25

Parameter	Native Sample	Duplicate Sam	ple Units	RPD	Qual RPD Limits
General Chemistry - Westborough Lab Associated sam	nple(s): 02 QC Batch ID:	WG2037160-3	QC Sample: L25117	33-01 Clie	ent ID: DUP Sample
Nitrogen, Nitrate/Nitrite	9.3	9.4	mg/l	1	20
General Chemistry - Westborough Lab Associated sam	nple(s): 02 QC Batch ID:	WG2037210-3	QC Sample: L25122	35-02 Clie	ent ID: OF006_030525
Cyanide, Free	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sam	nple(s): 02 QC Batch ID:	WG2037218-3	QC Sample: L24690	27-96 Clie	ent ID: DUP Sample
Solids, Total Suspended	1600	1700	mg/l	6	32
General Chemistry - Westborough Lab Associated sam	nple(s): 02 QC Batch ID:	WG2037245-4	QC Sample: L25122	35-02 Clie	ent ID: OF006_030525
Cyanide, Total	ND	ND	mg/l	NC	30
General Chemistry - Westborough Lab Associated sam	nple(s): 02 QC Batch ID:	WG2037246-3	QC Sample: L25122	35-02 Clie	ent ID: OF006_030525
Oil & Grease, Hem-Grav	ND	ND	mg/l	NC	18
General Chemistry - Westborough Lab Associated sam	nple(s): 02 QC Batch ID:	WG2037312-3	QC Sample: L25122	35-02 Clie	ent ID: OF006_030525
Chromium, Hexavalent	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sam	nple(s): 02 QC Batch ID:	WG2037326-4	QC Sample: L25122	35-02 Clie	ent ID: OF006_030525
Chemical Oxygen Demand	ND	17.J	mg/l	NC	20



Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Present/Intact

Sample Receipt and Container Information

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2512235-01A	Vial Na2S2O3 preserved	А	NA		3.0	Y	Present/Intact		624.1-PPM(7)
L2512235-01B	Vial Na2S2O3 preserved	А	NA		3.0	Y	Present/Intact		624.1-PPM(7)
L2512235-02A	Vial Na2S2O3 preserved	А	NA		3.0	Y	Present/Intact		624.1-PPM(7)
L2512235-02B	Vial Na2S2O3 preserved	А	NA		3.0	Y	Present/Intact		624.1-PPM(7)
L2512235-02C	Vial Na2S2O3 preserved	А	NA		3.0	Y	Present/Intact		624.1-PPM(7)
L2512235-02D	Plastic 250ml HNO3 preserved	A	<2	<2	3.0	Y	Present/Intact		AL-2008T(180),NI-2008T(180),ZN- 2008T(180),HARDT-2008(180),CU- 2008T(180),FE-2008T(180),PB- 2008T(180),CR-2008T(180)
L2512235-02E	Plastic 250ml unpreserved	А	7	7	3.0	Y	Present/Intact		-
L2512235-02F	Plastic 250ml H2SO4 preserved	А	<2	<2	3.0	Y	Present/Intact		NO3/NO2-353(28),COD-410(28)
L2512235-02H	Plastic 500ml unpreserved	А	7	7	3.0	Υ	Present/Intact		HEXCR-3500(1),FCN(1)
L2512235-02J	Plastic 250ml NaOH preserved	А	>12	>12	3.0	Y	Present/Intact		TCN-4500(14)
L2512235-02K	Amber 1L HCI preserved	А	NA		3.0	Y	Present/Intact		OG-1664(28)
L2512235-02L	Amber 1L HCI preserved	А	NA		3.0	Y	Present/Intact		OG-1664(28)
L2512235-02M	Plastic 950ml unpreserved	А	7	7	3.0	Y	Present/Intact		TSS-2540(7)
L2512235-02X	Plastic 120ml HNO3 preserved Filtrates	А	NA		3.0	Y	Present/Intact		CR-2008S(180),NI-2008S(180)

Pace

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2512235

Report Date: 03/07/25

GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers



Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2512235 **Report Date:** 03/07/25

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

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Data Qualifiers

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

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

Report Format: DU Report with 'J' Qualifiers



 Lab Number:
 L2512235

 Report Date:
 03/07/25

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

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

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: <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

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

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

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FAX: 508-898-9193	FAX: 508-822-3288	Project Name:	SPS Tec	hnologies				AX			EMA	IL.	1925-241	200922		1] Sar	me as Client info
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Fax: 856 - Email: tovah Stacy These samples ha Other Project S Altorne Alt VOA	793-2006 Larl Q WSP.com mason Q WSp.com ve been previously analyzed by Alpha Specific Requirements/Comm y - Client Priviledged H rs in one cooler I metals will be lab filte	Date Due Date Due nents/De Confira	e: tection Lii lettial	RUSH (mat	y coutinned if pro-	aaparsieed) Dary	An.	SISATIN T	TT'RE OL N ELLID. 4	100 mm	Plan - 2200.8	1 E200.8	\$ 500.8	States . Gar	and the second	/	1	SAMPLE HANDLING Filtration Done Not needed Lab to do Preservation	TOTAL # BO
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ANALYTICAL REPORT

Lab Number:	L2512242
Client:	WSP USA Inc. 401 Route 73 North Suite 205 Marlton, NJ 08053
ATTN: Phone:	Stacy Mason (856) 793-2005
Project Name:	SPS TECHNOLOGIES
Project Number:	US0043268.2150
Report Date:	03/07/25

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

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2512242

 Report Date:
 03/07/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2512242-01	SW5_030525	WATER	JENKINTOWN, PA	03/05/25 09:15	03/05/25
L2512242-02	SW4_030525	WATER	JENKINTOWN, PA	03/05/25 09:45	03/05/25
L2512242-03	SW3_030525	WATER	JENKINTOWN, PA	03/05/25 10:25	03/05/25
L2512242-04	SW2_030525	WATER	JENKINTOWN, PA	03/05/25 11:15	03/05/25
L2512242-05	SW1_030525	WATER	JENKINTOWN, PA	03/05/25 11:50	03/05/25
L2512242-06	TBSW_030525	WATER	JENKINTOWN, PA	03/05/25 00:00	03/05/25

Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150 Lab Number: L2512242 Report Date: 03/07/25

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:
 L2512242

 Report Date:
 03/07/25

Case Narrative (continued)

Report Submission

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

March 06, 2025: This is a preliminary report.

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

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

Authorized Signature:

Jufani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative

Date: 03/07/25

ORGANICS



VOLATILES



			Serial_No	0:03072516:12
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512242
Project Number:	US0043268.2150		Report Date:	03/07/25
		SAMPLE RESULTS		
Lab ID:	L2512242-01		Date Collected:	03/05/25 09:15
Client ID:	SW5_030525		Date Received:	03/05/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/06/25 11:55			
Analyst:	JKH			

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	Acce Cr	ptance iteria
Pentafluorobenzene			79		6	60-140
Fluorobenzene			75		6	60-140
4-Bromofluorobenzene			117		6	60-140



			Serial_No	0:03072516:12
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512242
Project Number:	US0043268.2150		Report Date:	03/07/25
		SAMPLE RESULTS		
Lab ID:	L2512242-02		Date Collected:	03/05/25 09:45
Client ID:	SW4_030525		Date Received:	03/05/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/06/25 11:23			
Analyst:	JKH			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - We	estborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier	Acce Cr	ptance iteria
Pentafluorobenzene			83		6	0-140
Fluorobenzene			74		6	0-140
4-Bromofluorobenzene			111		6	0-140



			Serial_No	0:03072516:12
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512242
Project Number:	US0043268.2150		Report Date:	03/07/25
		SAMPLE RESULTS		
Lab ID:	L2512242-03		Date Collected:	03/05/25 10:25
Client ID:	SW3_030525		Date Received:	03/05/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/06/25 10:50			
Analyst:	JKH			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - We	estborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier	Acce Cr	ptance iteria
Pentafluorobenzene			85		6	0-140
Fluorobenzene			77		6	0-140
4-Bromofluorobenzene			117		6	0-140



			Serial_No	0:03072516:12
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512242
Project Number:	US0043268.2150		Report Date:	03/07/25
		SAMPLE RESULTS		
Lab ID:	L2512242-04		Date Collected:	03/05/25 11:15
Client ID:	SW2_030525		Date Received:	03/05/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/06/25 10:17			
Analyst:	JKH			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - We	estborough Lab					
Toluene	ND		mg/l	0.0010	0.00031	1
2-Butanone	ND		mg/l	0.010	0.0010	1
Surrogate			% Recovery	Qualifier	Acce Cr	ptance iteria
Pentafluorobenzene			82		6	0-140
Fluorobenzene			77		6	0-140
4-Bromofluorobenzene			113		6	0-140



			Serial_No	0:03072516:12
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512242
Project Number:	US0043268.2150		Report Date:	03/07/25
		SAMPLE RESULTS		
Lab ID: Client ID: Sample Location:	L2512242-05 SW1_030525 JENKINTOWN, PA		Date Collected: Date Received: Field Prep:	03/05/25 11:50 03/05/25 Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/06/25 09:45			
Analyst:	JKH			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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	Acce Cr	ptance iteria
Pentafluorobenzene			85		6	60-140
Fluorobenzene			76		6	60-140
4-Bromofluorobenzene			117		6	60-140

Pace

			Serial_No:	03072516:12
Project Name:	SPS TECHNOLOGIES		Lab Number:	L2512242
Project Number:	US0043268.2150		Report Date:	03/07/25
		SAMPLE RESULTS		
Lab ID:	L2512242-06		Date Collected:	03/05/25 00:00
Client ID:	TBSW_030525		Date Received:	03/05/25
Sample Location:	JENKINTOWN, PA		Field Prep:	Not Specified
Sample Depth:				
Matrix:	Water			
Analytical Method:	128,624.1			
Analytical Date:	03/06/25 09:13			
Analyst:	JKH			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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	Acce Cr	ptance iteria
Pentafluorobenzene			86		6	0-140
Fluorobenzene			78		6	0-140
4-Bromofluorobenzene			112		6	0-140



Project Name:	SPS TECHNOLOGIES	Lab Number:	L2512242
Project Number:	US0043268.2150	Report Date:	03/07/25

Method Blank Analysis Batch Quality Control

Analytical Method:128,624.1Analytical Date:03/06/25 08:10Analyst:JKH

Parameter	Result	Qualifier	Units	RL	MDL	
Volatile Organics by GC/MS - West	borough Lat	o for sample	e(s): 01-06	Batch:	WG2037453-4	
Toluene	ND		mg/l	0.0010	0.00031	
2-Butanone	ND		mg/l	0.010	0.0010	

Surrogate	%Recovery	Qualifier	Criteria	
Pentafluorobenzene	87		60-140	
Fluorobenzene	78		60-140	
4-Bromofluorobenzene	113		60-140	

Pace

Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

 Lab Number:
 L2512242

 Report Date:
 03/07/25

	LCS		LCSD		%Recovery			RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	
			04.00 Detab		7450.0				
volatile Organics by GC/IVIS - Westboroug	gn Lab Associate	ed sample(s)	: 01-06 Batch	: WG203	37453-3				
Toluene	130		-		70-130	-		41	
2-Butanone	84		-		60-140	-		30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qua	Acceptance I Criteria
Pentafluorobenzene	95		60-140
Fluorobenzene	89		60-140
4-Bromofluorobenzene	114		60-140


METALS



Project Name: Project Number:	SPS T US004	ECHNOLC 13268.2150	DGIES)	Lab Number: Report Date: SAMPLE RESULTS				mber: Date:	L2512242 03/07/25		
Lab ID: Client ID: Sample Location:	L25122 SW5_(JENKI	242-01)30525 NTOWN, F	PΑ	SAMPL	E KESU	JLIS	Date Co Date Ro Field Pr	ollected: eceived: rep:	03/05/25 03/05/25 Not Spec	09:15 :ified	
Sample Depth: Matrix: Parameter	Water Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansi	field Lab										
Chromium, Total	0.00018	J	mg/l	0.00100	0.00017	1	03/06/25 08:4	6 03/06/25 12:41	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00169	J	mg/l	0.00200	0.00055	1	03/06/25 08:4	6 03/06/25 12:41	EPA 3005A	3,200.8	NTB
Total Hardness (by o	calculatio	n) - Mansfi	eld Lab								
Hardness	198.9		mg/l	0.5400	NA	1	03/06/25 08:4	6 03/06/25 12:41	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfiel	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/06/25 12:41	NA	107,-	
Dissolved Metals - N	/lansfield	Lab									
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/07/25 10:0	9 03/07/25 13:37	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0017	J	mg/l	0.0020	0.0006	1	03/07/25 10:0	9 03/07/25 13:37	EPA 3005A	3,200.8	NTB

Project Name: Project Number:	SPS T US004	ECHNOLC 13268.2150	DGIES)	Lab Number: Report Date: SAMPLE RESULTS				mber: Date:	L2512242 03/07/25		
Lab ID: Client ID: Sample Location:	L2512: SW4_(JENKI	242-02 030525 NTOWN, F	PA	SAMPL	E RESU	JLTS	Date Co Date Ro Field Pi	ollected: eceived: rep:	03/05/25 03/05/25 Not Spec	09:45 cified	
Sample Depth: Matrix:	Water	Qualifier	Units	RI	MDI	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Δnalvst
	nooun	Qualito					-	-			Analyst
Total Metals - Manst	field Lab										
Chromium, Total	0.00020	J	mg/l	0.00100	0.00017	1	03/06/25 08:4	6 03/06/25 12:46	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00256		mg/l	0.00200	0.00055	1	03/06/25 08:4	6 03/06/25 12:46	EPA 3005A	3,200.8	NTB
Total Hardness (by o	calculatio	n) - Mansfi	eld Lab								
Hardness	227.3		mg/l	0.5400	NA	1	03/06/25 08:4	6 03/06/25 12:46	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfiel	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/06/25 12:46	NA	107,-	
Dissolved Metals - N	/lansfield	Lab									
Chromium, Dissolved	0.0002	J	mg/l	0.0010	0.0002	1	03/07/25 10:0	9 03/07/25 13:55	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0024		mg/l	0.0020	0.0006	1	03/07/25 10:0	9 03/07/25 13:55	EPA 3005A	3,200.8	NTB

Project Name: Project Number:	SPS T US004	ECHNOLC 13268.2150))				Lab Nu Report	mber: Date:	L251224 03/07/2	42 5	
Lab ID: Client ID: Sample Location:	L2512 SW3_(JENKI	242-03 030525 NTOWN, F	PΑ	SAMPL	E RESU	JLTS	Date Co Date Ro Field Pi	ollected: eceived: ep:	03/05/25 03/05/25 Not Spec	10:25 cified	
Sample Depth: Matrix: Parameter	Water Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Manst	field Lab										
Chromium, Total	0.00026	J	mg/l	0.00100	0.00017	1	03/06/25 08:4	6 03/06/25 12:51	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00203		mg/l	0.00200	0.00055	1	03/06/25 08:4	6 03/06/25 12:51	EPA 3005A	3,200.8	NTB
Total Hardness (by o	calculatio	n) - Mansfi	eld Lab								
Hardness	226.9		mg/l	0.5400	NA	1	03/06/25 08:4	6 03/06/25 12:51	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfiel	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/06/25 12:51	NA	107,-	
Dissolved Metals - N	/lansfield	Lab									
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/07/25 10:0	9 03/07/25 14:00	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0018	J	mg/l	0.0020	0.0006	1	03/07/25 10:0	9 03/07/25 14:00	EPA 3005A	3,200.8	NTB

Project Name: Project Number:	SPS T US004	ECHNOLC 3268.2150))	Lab Number: Report Date: SAMPLE RESULTS				mber: Date:	L2512242 03/07/25		
Lab ID: Client ID: Sample Location:	L25122 SW2_(JENKII	242-04)30525 NTOWN, F	PΑ	SAMPL	E KESU	JLIS	Date Co Date Re Field Pr	ollected: eceived: rep:	03/05/25 03/05/25 Not Spec	11:15 cified	
Sample Depth: Matrix: Parameter	Water Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansf	field Lab										
Chromium, Total	0.00029	J	mg/l	0.00100	0.00017	1	03/06/25 08:46	6 03/06/25 12:55	EPA 3005A	3,200.8	NTB
Nickel, Total	0.00073	J	mg/l	0.00200	0.00055	1	03/06/25 08:46	6 03/06/25 12:55	EPA 3005A	3,200.8	NTB
Total Hardness (by o	calculation	n) - Mansfi	eld Lab								
Hardness	216.7		mg/l	0.5400	NA	1	03/06/25 08:46	6 03/06/25 12:55	EPA 3005A	3,200.8	NTB
General Chemistry -	Mansfiel	d Lab									
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/06/25 12:55	NA	107,-	
Dissolved Metals - M	lansfield	Lab									
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	03/07/25 10:09	9 03/07/25 14:05	EPA 3005A	3,200.8	NTB
Nickel, Dissolved	0.0010	J	mg/l	0.0020	0.0006	1	03/07/25 10:09	9 03/07/25 14:05	EPA 3005A	3,200.8	NTB

Project Name: Project Number:	SPS T US004	ECHNOLC 13268.2150	DGIES)	Lab Numbe Report Dat SAMPLE RESULTS				mber: Date:	er: L2512242 te: 03/07/25			
Lab ID: Client ID: Sample Location:	L25122 SW1_(JENKI	242-05)30525 NTOWN, F	PΑ	SAMPL	E KESU	JLIS	Date Co Date Re Field Pr	bllected: eceived: rep:	03/05/25 03/05/25 Not Spec	11:50 cified		
Sample Depth: Matrix:	Water	Qualifier	Units	RI	MDI	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst	
	nooun	quantor	•					-			Analyst	
Total Metals - Manst	field Lab											
Chromium, Total	0.00024	J	mg/l	0.00100	0.00017	1	03/06/25 08:40	6 03/06/25 13:00	EPA 3005A	3,200.8	NTB	
Nickel, Total	0.00144	J	mg/l	0.00200	0.00055	1	03/06/25 08:40	6 03/06/25 13:00	EPA 3005A	3,200.8	NTB	
Total Hardness (by o	calculatio	n) - Mansfi	eld Lab									
Hardness	295.4		mg/l	0.5400	NA	1	03/06/25 08:40	6 03/06/25 13:00	EPA 3005A	3,200.8	NTB	
General Chemistry -	Mansfiel	d Lab										
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/06/25 13:00	NA	107,-		
Dissolved Metals - N	lansfield	Lab										
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	03/07/25 10:09	9 03/07/25 14:09	EPA 3005A	3,200.8	NTB	
Nickel, Dissolved	0.0014	J	mg/l	0.0020	0.0006	1	03/07/25 10:09	9 03/07/25 14:09	EPA 3005A	3,200.8	NTB	

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2512242

 Report Date:
 03/07/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfiel	d Lab for sample(s):	01-05 E	Batch: WG	620372	08-1				
Chromium, Total	ND	mg/l	0.00100	0.00017	7 1	03/06/25 08:46	03/06/25 12:17	3,200.8	NTB
Nickel, Total	ND	mg/l	0.00200	0.00055	5 1	03/06/25 08:46	03/06/25 12:17	3,200.8	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calcu	ulation) - Mansfield L	ab for sa	ample(s):	01-05	Batch: WO	G2037208-1			
Hardness	ND	mg/l	0.5400	NA	1	03/06/25 08:46	03/06/25 12:17	3,200.8	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals -	Mansfield Lab	for sample	(s): 01-05	5 Batch	: WG2	037625-1				
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	! 1	03/07/25 10:09	03/07/25 13:28	3,200.8	NTB
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	6 1	03/07/25 10:09	03/07/25 13:28	3,200.8	NTB

Prep Information

Digestion Method: EPA 3005A

Pace

Lab Control Sample Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

 Lab Number:
 L2512242

 Report Date:
 03/07/25

Project Number: US0043268.2150

Parameter	LCS %Recoverv	Qual	LCSD %Recoverv	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Total Metals - Mansfield Lab Associated same	ble(s): 01-05	Batch: W	G2037208-2	Quai			Quai		
		20101111							
Chromium, Total	99		-		85-115	-			
Nickel, Total	104		-		85-115	-			
Total Hardness (by calculation) - Mansfield La	b Associated	sample(s)	: 01-05 Batch: V	VG203720	8-2				
Hardness	93		-		85-115	-			
Dissolved Metals - Mansfield Lab Associated	sample(s): 01	-05 Batc	h: WG2037625-2						
Chromium, Dissolved	92		-		85-115	-			
Nickel, Dissolved	99		-		85-115	-			

Pace

Matrix Spike Analysis Batch Quality Control

Project Name:	SPS TECHNOLOGIES	Batch Qi
Project Number:	US0043268.2150	

US0043268.2150

Lab Number: L2512242 **Report Date:** 03/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery Qu	Recovery ual Limits	RPD Qua	RPD Limits
Total Metals - Mansfield La	b Associated sam	ple(s): 01-0	5 QC Bate	ch ID: WG203 ⁻	7208-3	QC Sam	ple: L2512235-02	Client ID: MS	Sample	
Chromium, Total	0.00031J	0.2	0.1945	97		-	-	70-130	-	20
Nickel, Total	0.00136J	0.5	0.5088	102		-	-	70-130	-	20
Total Hardness (by calculat Sample	tion) - Mansfield L	ab Associate	ed sample(s): 01-05 QC	Batch I	D: WG203	37208-3 QC San	nple: L2512235	-02 Client I	D: MS
Hardness	189.3	66.2	244.4	83		-	-	70-130	-	20
Dissolved Metals - Mansfiel	ld Lab Associated	sample(s):	01-05 QC	Batch ID: WO	6203762	25-3 QC	Sample: L251224	2-01 Client ID	: SW5_0308	525
Chromium, Dissolved	ND	0.2	0.1845	92		-	-	70-130	-	20
Nickel, Dissolved	0.0017J	0.5	0.4863	97		-	-	70-130	-	20



Lab Duplicate Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2512242 Report Date: 03/07/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual RPD Limits	
Total Metals - Mansfield Lab Associated sample(s): 01-0	5 QC Batch ID: W	G2037208-4 QC Sample:	L2512235-02	Client ID:	DUP Sample	
Chromium, Total	0.00031J	0.00037J	mg/l	NC	20	
Nickel, Total	0.00136J	0.00135J	mg/l	NC	20	
Total Hardness (by calculation) - Mansfield Lab Associate Sample	ed sample(s): 01-05	QC Batch ID: WG203720)8-4 QC Sam	ple: L2512	2235-02 Client ID: DUP	
Hardness	189.3	192.6	mg/l	2	20	
Dissolved Metals - Mansfield Lab Associated sample(s):	01-05 QC Batch ID	: WG2037625-4 QC San	nple: L251224	2-01 Clier	nt ID: SW5_030525	
Chromium, Dissolved	ND	ND	mg/l	NC	20	
Nickel, Dissolved	0.0017J	0.0017J	mg/l	NC	20	



INORGANICS & MISCELLANEOUS



Serial No:03072516:12

Project Name:SPS TECHNOLOGIESLab Number:L2512242Project Number:US0043268.2150Report Date:03/07/25SAMPLE RESULTS

Lab ID:	L2512242-01		Date Colle	ected:	03/05/25 09:15	
Client ID:	SW5_030525		Date Rece	eived:	03/05/25	
Sample Location:	JENKINTOWN, PA		Field Prep	:	Not Specified	
Sample Depth: Matrix:	Water	Dilution	Date	Date	Analytical	

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lat	C								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/06/25 07:20	03/06/25 11:17	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/06/25 07:00	121,4500CN-	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/06/25 07:33	03/06/25 09:06	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/06/25 08:50	03/06/25 09:11	121,3500CR-B	CAR



Serial No:03072516:12

Project Name:SPS TECHNOLOGIESLab Number:L2512242Project Number:US0043268.2150Report Date:03/07/25SAMPLE RESULTS

Lab ID: Client ID:	L2512242-02 SW4_030525	Date Collected: Date Received:	03/05/25 09:45 03/05/25
Sample Location:	JENKINTOWN, PA	Field Prep:	Not Specified
Sample Depth: Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough La	b								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/06/25 07:20	03/06/25 11:20	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/06/25 07:00	121,4500CN-	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/06/25 07:33	03/06/25 12:12	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/06/25 08:50	03/06/25 09:12	121,3500CR-B	CAR



|--|

Field Prep:

Not Specified

Project Name: Lab Number: SPS TECHNOLOGIES L2512242 Project Number: **Report Date:** 03/07/25 US0043268.2150 SAMPLE RESULTS Lab ID: Date Collected: L2512242-03 03/05/25 10:25 Client ID: SW3_030525 Date Received: 03/05/25

Sample Depth: Matrix:

Sample Location: JENKINTOWN, PA

Matrix:	Water									
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lal	b								
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	03/06/25 07:20	03/06/25 11:21	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/06/25 07:00	121,4500CN- E(M)	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.4	4.4	1.1	03/06/25 07:33	03/06/25 12:14	140,1664B	TPR
Chromium, Hexavalent	0.003	J	mg/l	0.010	0.003	1	03/06/25 08:50	03/06/25 09:12	121,3500CR-B	CAR



Serial No:03072516:12

 Project Name:
 SPS TECHNOLOGIES
 Lab Number:
 L2512242

 Project Number:
 US0043268.2150
 Report Date:
 03/07/25

 SAMPLE RESULTS
 Date Collected:
 03/05/25 11:15

Pa	rameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
	Sample Depth: Matrix:	Water									
	Client ID: Sample Location:	SW2_03052 JENKINTOV	5 VN, PA					Date R Field P	eceived: rep:	03/05/25 Not Specified	
	Lub ID.		•					Duio O	onootou.	00/00/20 11.10	,

General Chemistry - We	stborough Lab								
Cyanide, Total	ND	mg/l	0.005	0.001	1	03/06/25 07:20	03/06/25 11:22	121,4500CN-CE	JER
Cyanide, Free	ND	mg/l	0.010	0.003	1	-	03/06/25 07:00	121,4500CN-	KAF
Oil & Grease, Hem-Grav	ND	mg/l	4.0	4.0	1	03/06/25 07:33	03/06/25 12:16	140,1664B	TPR
Chromium, Hexavalent	ND	mg/l	0.010	0.003	1	03/06/25 08:50	03/06/25 09:12	121,3500CR-B	CAR



Serial No:03072516:12

Project Name:SPS TECHNOLOGIESLab Number:L2512242Project Number:US0043268.2150Report Date:03/07/25SAMPLE RESULTS

Lab ID:	L2512242-05	Date Collected:	03/05/25 11:50	
Client ID:	SW1_030525	Date Received:	03/05/25	
Sample Location:	JENKINTOWN, PA	Field Prep:	Not Specified	
Sample Depth: Matrix:	Water			

						Dilution	Date	Date	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Analyst
General Chemistry - We	stborough Lat)								
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/06/25 07:20	03/06/25 11:23	121,4500CN-CE	JER
Cyanide, Free	ND		mg/l	0.010	0.003	1	-	03/06/25 07:00	121,4500CN-	KAF
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	03/06/25 07:33	03/06/25 11:58	140,1664B	TPR
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/06/25 08:50	03/06/25 09:12	121,3500CR-B	CAR



Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2512242

 Report Date:
 03/07/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab for san	nple(s): 0'	1-05 Ba	tch: WC	G2037210-	1			
Cyanide, Free	ND	mg/l	0.010	0.003	1	-	03/06/25 07:00	121,4500CN-E(N	M) KAF
General Chemistry - Wes	stborough Lab for san	nple(s): 0'	1-05 Ba	tch: WC	62037245-	1			
Cyanide, Total	ND	mg/l	0.005	0.001	1	03/06/25 07:20	03/06/25 11:11	121,4500CN-CE	E JER
General Chemistry - Wes	stborough Lab for san	nple(s): 0'	1-05 Ba	tch: WC	G2037246-	1			
Oil & Grease, Hem-Grav	ND	mg/l	4.0	4.0	1	03/06/25 07:33	03/06/25 09:00	140,1664B	TPR
General Chemistry - Wes	stborough Lab for san	nple(s): 0'	1-05 Ba	tch: WC	G2037313-	1			
Chromium, Hexavalent	ND	mg/l	0.010	0.003	1	03/06/25 08:50	03/06/25 09:11	121,3500CR-B	CAR

Lab Control Sample Analysis Batch Quality Control

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

 Lab Number:
 L2512242

 Report Date:
 03/07/25

Demonster	LCS	LCSD		%Recovery				
Parameter	%Recovery Qua	i %Recovery	Qual	Limits	RPD	Qual	RPD LIMIts	
General Chemistry - Westborough Lab A	Associated sample(s): 01-	05 Batch: WG20372	210-2					
Cyanide, Free	97	-		90-110	-			
General Chemistry - Westborough Lab	Associated sample(s): 01-	05 Batch: WG20372	245-2					
Cyanide, Total	100	-		90-110	-			
General Chemistry - Westborough Lab	Associated sample(s): 01-)5 Batch: W/G2037	246-2					
Scheral Sherhistry Westborough Lab 7			240 2					
Oil & Grease, Hem-Grav	100	-		78-114	-		18	
General Chemistry - Westborough Lab	Associated sample(s): 01-	05 Batch: WG2037	313-2					
Chromium, Hexavalent	101	-		85-115	-		20	

Pace

Matrix Spike Analysis Batch Quality Control

Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150 Lab Number: L2512242 **Report Date:** 03/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Rec Qual Li	overy mits	RPD	Qual	RPD Limits
General Chemistry - Westborou	gh Lab Asso	ciated samp	ole(s): 01-05	QC Batch II	D: WG2037210-4	QC Sample:	L2512235-0	2 Clien	nt ID:	MS Sa	mple
Cyanide, Free	ND	0.25	0.178	71	Q -	-	80	-120	-		20
General Chemistry - Westborou	gh Lab Asso	ciated samp	ole(s): 01-05	QC Batch II	D: WG2037245-3	QC Sample:	L2512235-0	2 Clien	nt ID:	MS Sa	mple
Cyanide, Total	ND	0.2	0.207	104	-	-	90	-110	-		30
General Chemistry - Westborou	gh Lab Asso	ciated samp	ole(s): 01-05	QC Batch II	D: WG2037246-4	QC Sample:	L2512242-0	1 Clien	nt ID:	SW5_0	030525
Oil & Grease, Hem-Grav	ND	40	40	100	-	-	78	-114	-		18
General Chemistry - Westborou	gh Lab Asso	ciated samp	ole(s): 01-05	QC Batch II	D: WG2037313-4	QC Sample:	L2512242-0	1 Clien	nt ID:	SW5_0	030525
Chromium, Hexavalent	ND	0.1	0.096	96	-	-	85	-115	-		20



Lab Duplicate Analysis Batch Quality Control

Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

Lab Number:

 Lab Number:
 L2512242

 Report Date:
 03/07/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual RPD	Limits
General Chemistry - Westborough Lab Associa	ted sample(s): 01-05 QC Bate	ch ID: WG2037210-3	QC Sample: L28	512235-02	Client ID: DUP S	ample
Cyanide, Free	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associa	ted sample(s): 01-05 QC Bate	ch ID: WG2037245-4	QC Sample: L28	512235-02	Client ID: DUP S	ample
Cyanide, Total	ND	ND	mg/l	NC		30
General Chemistry - Westborough Lab Associa	ted sample(s): 01-05 QC Bate	ch ID: WG2037246-3	QC Sample: L28	512235-02	Client ID: DUP S	ample
Oil & Grease, Hem-Grav	ND	ND	mg/l	NC		18
General Chemistry - Westborough Lab Associa	ted sample(s): 01-05 QC Bate	ch ID: WG2037313-3	QC Sample: L28	512242-01	Client ID: SW5_0)30525
Chromium, Hexavalent	ND	ND	mg/l	NC		20



Project Name: SPS TECHNOLOGIES Project Number: US0043268.2150

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Present/Intact
В	Present/Intact

Sample Receipt and Container Information

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
_2512242-01A	Vial Na2S2O3 preserved	А	NA		4.0	Y	Present/Intact		624.1-PPM(7)
_2512242-01B	Vial Na2S2O3 preserved	А	NA		4.0	Y	Present/Intact		624.1-PPM(7)
_2512242-01C	Vial Na2S2O3 preserved	А	NA		4.0	Y	Present/Intact		624.1-PPM(7)
_2512242-01D	Plastic 250ml NaOH preserved	А	>12	>12	4.0	Y	Present/Intact		TCN-4500(14)
_2512242-01E	Plastic 250ml unpreserved	А	7	7	4.0	Y	Present/Intact		-
_2512242-01F	Plastic 250ml HNO3 preserved	А	<2	<2	4.0	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
_2512242-01G	Plastic 500ml unpreserved	А	7	7	4.0	Y	Present/Intact		HEXCR-3500(1),FCN(1)
_2512242-01H	Amber 1L HCI preserved	А	NA		4.0	Y	Present/Intact		OG-1664(28)
_2512242-01J	Amber 1L HCI preserved	А	NA		4.0	Y	Present/Intact		OG-1664(28)
_2512242-01X	Plastic 120ml HNO3 preserved Filtrates	А	NA		4.0	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
_2512242-02A	Vial Na2S2O3 preserved	А	NA		4.0	Y	Present/Intact		624.1-PPM(7)
_2512242-02B	Vial Na2S2O3 preserved	А	NA		4.0	Y	Present/Intact		624.1-PPM(7)
_2512242-02C	Vial Na2S2O3 preserved	А	NA		4.0	Y	Present/Intact		624.1-PPM(7)
_2512242-02D	Plastic 250ml NaOH preserved	А	>12	>12	4.0	Y	Present/Intact		TCN-4500(14)
_2512242-02E	Plastic 250ml unpreserved	А	7	7	4.0	Y	Present/Intact		-
_2512242-02F	Plastic 250ml HNO3 preserved	А	<2	<2	4.0	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
_2512242-02G	Plastic 500ml unpreserved	А	7	7	4.0	Y	Present/Intact		HEXCR-3500(1),FCN(1)
_2512242-02H	Amber 1L HCI preserved	А	NA		4.0	Y	Present/Intact		OG-1664(28)
_2512242-02J	Amber 1L HCI preserved	А	NA		4.0	Y	Present/Intact		OG-1664(28)
_2512242-02X	Plastic 120ml HNO3 preserved Filtrates	А	NA		4.0	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
_2512242-03A	Vial Na2S2O3 preserved	А	NA		4.0	Y	Present/Intact		624.1-PPM(7)



Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2512242-03B	Vial Na2S2O3 preserved	А	NA		4.0	Y	Present/Intact		624.1-PPM(7)
L2512242-03C	Vial Na2S2O3 preserved	А	NA		4.0	Υ	Present/Intact		624.1-PPM(7)
L2512242-03D	Plastic 250ml NaOH preserved	А	>12	>12	4.0	Υ	Present/Intact		TCN-4500(14)
L2512242-03E	Plastic 250ml unpreserved	А	7	7	4.0	Y	Present/Intact		-
L2512242-03F	Plastic 250ml HNO3 preserved	А	<2	<2	4.0	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2512242-03G	Plastic 500ml unpreserved	А	7	7	4.0	Y	Present/Intact		HEXCR-3500(1),FCN(1)
L2512242-03H	Amber 1L HCI preserved	А	NA		4.0	Y	Present/Intact		OG-1664(28)
L2512242-03J	Amber 1L HCI preserved	А	NA		4.0	Y	Present/Intact		OG-1664(28)
L2512242-03X	Plastic 120ml HNO3 preserved Filtrates	А	NA		4.0	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
L2512242-04A	Vial Na2S2O3 preserved	А	NA		4.0	Y	Present/Intact		624.1-PPM(7)
L2512242-04B	Vial Na2S2O3 preserved	А	NA		4.0	Y	Present/Intact		624.1-PPM(7)
L2512242-04C	Vial Na2S2O3 preserved	А	NA		4.0	Υ	Present/Intact		624.1-PPM(7)
L2512242-04D	Plastic 250ml NaOH preserved	В	>12	>12	4.5	Υ	Present/Intact		TCN-4500(14)
L2512242-04E	Plastic 250ml unpreserved	В	7	7	4.5	Υ	Present/Intact		-
L2512242-04F	Plastic 250ml HNO3 preserved	В	<2	<2	4.5	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2512242-04G	Plastic 500ml unpreserved	В	7	7	4.5	Y	Present/Intact		HEXCR-3500(1),FCN(1)
L2512242-04H	Amber 1L HCI preserved	В	NA		4.5	Y	Present/Intact		OG-1664(28)
L2512242-04J	Amber 1L HCI preserved	В	NA		4.5	Y	Present/Intact		OG-1664(28)
L2512242-04X	Plastic 120ml HNO3 preserved Filtrates	В	NA		4.5	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
L2512242-05A	Vial Na2S2O3 preserved	А	NA		4.0	Y	Present/Intact		624.1-PPM(7)
L2512242-05B	Vial Na2S2O3 preserved	А	NA		4.0	Y	Present/Intact		624.1-PPM(7)
L2512242-05C	Vial Na2S2O3 preserved	А	NA		4.0	Y	Present/Intact		624.1-PPM(7)
L2512242-05D	Plastic 250ml NaOH preserved	В	>12	>12	4.5	Y	Present/Intact		TCN-4500(14)
L2512242-05E	Plastic 250ml unpreserved	В	7	7	4.5	Y	Present/Intact		-
L2512242-05F	Plastic 250ml HNO3 preserved	В	<2	<2	4.5	Y	Present/Intact		NI-2008T(180),HARDT-2008(180),CR- 2008T(180)
L2512242-05G	Plastic 500ml unpreserved	В	7	7	4.5	Y	Present/Intact		HEXCR-3500(1),FCN(1)
L2512242-05H	Amber 1L HCI preserved	В	NA		4.5	Y	Present/Intact		OG-1664(28)



Project Name:SPS TECHNOLOGIESProject Number:US0043268.2150

Serial_No:03072516:12 *Lab Number:* L2512242 *Report Date:* 03/07/25

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2512242-05J	Amber 1L HCI preserved	В	NA		4.5	Y	Present/Intact		OG-1664(28)
L2512242-05X	Plastic 120ml HNO3 preserved Filtrates	В	NA		4.5	Y	Present/Intact		CR-2008S(180),NI-2008S(180)
L2512242-06A	Vial Na2S2O3 preserved	В	NA		4.5	Υ	Present/Intact		624.1-PPM(7)
L2512242-06B	Vial Na2S2O3 preserved	В	NA		4.5	Y	Present/Intact		624.1-PPM(7)



Project Name: SPS TECHNOLOGIES

Project Number: US0043268.2150

Lab Number: L2512242

Report Date: 03/07/25

GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers



Project Name: SPS TECHNOLOGIES

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Lab Number: L2512242 Report Date: 03/07/25

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(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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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:
 L2512242

 Report Date:
 03/07/25

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: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (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

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

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

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Fax: 856 -	793-2006		1																	
Email: tovah .	karl @wsp.com	Standard I	RUSH	continued if pre-s	approved?)	100	1000		7	257	7		,	,		_				
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02	SW4_030525	3/5/25	09-110	SIN	D		X		1	X	Ê	X	K	X	X	X	*	PH :	6.52	9
03	SW3 030525	3/5/20	0.45	Cut	BL	X	X	X	X	X	~	X	×	×	X	X	*	PH :	6.87	9
NY	CW12 424570		10:25	SW	BL	×	X	X	X	X	×	X	×	X	×	х	×	PH :	7.17	9
NE	2014 - 0305 25	3/5/25	11:12	SW	BL	X	X	X	X	X	14	×	×	X	x	×	*	ptf :	7.88	9
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