➤ Interim Site Characterization Report / 34328 SPLP Twin Oaks-Newark 14-inch Diameter Pipeline Release September 2, 2025

Appendix O.3

Recovery Well Soil Boring Laboratory Results





ANALYTICAL REPORT

Lab Number: L2515726

Client: Groundwater & Environmental Services, In

410 Eagleview Blvd Exton, PA 19341

ATTN: Stephanie Grillo Phone: (641) 458-1077

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified Report Date: 03/21/25

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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).



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number:

L2515726

Report Date:

03/21/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2515726-01	RW-1@1'-2'	SOIL	WASHINGTON CROSSING, PA	03/18/25 14:40	03/18/25
L2515726-02	RW-1@4'-5'	SOIL	WASHINGTON CROSSING, PA	03/18/25 14:45	03/18/25



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2515726Project Number:Not SpecifiedReport Date:03/21/25

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:SUNOCO PIPELINE LP (SPLP)Lab Number:L2515726Project Number:Not SpecifiedReport Date:03/21/25

Case Narrative (continued)

Report Submission

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.

Lelly Melf Kelly O'Neill

Authorized Signature:

Title: Technical Director/Representative

Date: 03/21/25

Pace

ORGANICS



VOLATILES



L2515726

03/21/25

03/18/25

None

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

SAMPLE RESULTS

Date Collected: 03/18/25 14:40

Lab Number:

Report Date:

Date Received:

Field Prep:

Lab ID: L2515726-01

Client ID: RW-1@1'-2'

Sample Location: WASHINGTON CROSSING, PA

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/21/25 13:22

Analyst: JIC Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor				
Volatile Organics by EPA 5035 Low - Westborough Lab										
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00023	1				
Benzene	ND		mg/kg	0.00056	0.00019	1				
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1				
Toluene	ND		mg/kg	0.0011	0.00061	1				
1,2-Dibromoethane	ND		mg/kg	0.00056	0.00033	1				
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1				
p/m-Xylene	ND		mg/kg	0.0022	0.00063	1				
o-Xylene	ND		mg/kg	0.0011	0.00033	1				
Xylenes, Total	ND		mg/kg	0.0011	0.00033	1				
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1				
1,3,5-Trimethylbenzene	ND		mg/kg	0.0022	0.00022	1				
1,2,4-Trimethylbenzene	ND		mg/kg	0.0022	0.00038	1				
Naphthalene	ND		mg/kg	0.0045	0.00073	1				

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	87	70-130	
4-Bromofluorobenzene	84	70-130	
Dibromofluoromethane	96	70-130	



L2515726

03/21/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

SAMPLE RESULTS

Date Collected: 03/18/25 14:45

Lab ID: L2515726-02 Client ID: RW-1@4'-5'

Sample Location: WASHINGTON CROSSING, PA

Date Received: 03/18/25 Field Prep: None

Lab Number:

Report Date:

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/21/25 13:48

Analyst: JIC Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor					
Volatile Organics by EPA 5035 Low -	Volatile Organics by EPA 5035 Low - Westborough Lab										
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1					
Benzene	ND		mg/kg	0.00059	0.00020	1					
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1					
Toluene	ND		mg/kg	0.0012	0.00064	1					
1,2-Dibromoethane	ND		mg/kg	0.00059	0.00035	1					
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1					
p/m-Xylene	ND		mg/kg	0.0024	0.00066	1					
o-Xylene	ND		mg/kg	0.0012	0.00034	1					
Xylenes, Total	ND		mg/kg	0.0012	0.00034	1					
Isopropylbenzene	ND		mg/kg	0.0012	0.00013	1					
1,3,5-Trimethylbenzene	ND		mg/kg	0.0024	0.00023	1					
1,2,4-Trimethylbenzene	ND		mg/kg	0.0024	0.00040	1					
Naphthalene	ND		mg/kg	0.0047	0.00077	1					

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	88	70-130	
4-Bromofluorobenzene	87	70-130	
Dibromofluoromethane	97	70-130	



L2515726

Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number:

Project Number: Not Specified Report Date: 03/21/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 03/21/25 11:34

Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL	
olatile Organics by EPA 5035	Low - Westboro	ugh Lab fo	r sample(s):	01-02	Batch: WG2043574-5	5
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020	
Benzene	ND		mg/kg	0.00050	0.00017	
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	
Toluene	ND		mg/kg	0.0010	0.00054	
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029	
Ethylbenzene	ND		mg/kg	0.0010	0.00014	
p/m-Xylene	ND		mg/kg	0.0020	0.00056	
o-Xylene	ND		mg/kg	0.0010	0.00029	
Xylenes, Total	ND		mg/kg	0.0010	0.00029	
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019	
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033	
Naphthalene	ND		mg/kg	0.0040	0.00065	

Surrogate	%Recovery	Acceptance Qualifier Criteria
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	85	70-130
Dibromofluoromethane	91	70-130



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number:

L2515726

Report Date:

03/21/25

arameter	LCS %Recovery	Qual	LCSD %Recove	ry (Qual	%Recovery Limits	RPD	Qual	RPD Limits	
platile Organics by EPA 5035 Low - Wes	tborough Lab	Associated sa	mple(s): 0	1-02	Batch:	WG2043574-3	WG2043574-	4		
Methyl tert butyl ether	95		91			66-130	4		30	
Benzene	86		83			70-130	4		30	
1,2-Dichloroethane	99		96			70-130	3		30	
Toluene	82		80			70-130	2		30	
1,2-Dibromoethane	90		90			70-130	0		30	
Ethylbenzene	85		84			70-130	1		30	
p/m-Xylene	88		86			70-130	2		30	
o-Xylene	88		87			70-130	1		30	
Isopropylbenzene	87		86			70-130	1		30	
1,3,5-Trimethylbenzene	86		84			70-130	2		30	
1,2,4-Trimethylbenzene	86		85			70-130	1		30	
Naphthalene	106		108			70-130	2		30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria	
1,2-Dichloroethane-d4	93	94	70-130	
Toluene-d8	88	89	70-130	
4-Bromofluorobenzene	91	91	70-130	
Dibromofluoromethane	92	92	70-130	



METALS



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2515726Project Number:Not SpecifiedReport Date:03/21/25

SAMPLE RESULTS

 Lab ID:
 L2515726-01
 Date Collected:
 03/18/25 14:40

 Client ID:
 RW-1@1'-2'
 Date Received:
 03/18/25

Sample Location: WASHINGTON CROSSING, PA Field Prep: None

Sample Depth:

Matrix: Soil Percent Solids: 82%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analysi

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analyst

Total Metals - Mansfield Lab

Lead, Total ND mg/kg 0.71 0.06 10 03/20/25 14:31 03/20/25 18:13 EPA 3050B 1,6020B NTB



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2515726Project Number:Not SpecifiedReport Date:03/21/25

SAMPLE RESULTS

 Lab ID:
 L2515726-02
 Date Collected:
 03/18/25 14:45

 Client ID:
 RW-1@4'-5'
 Date Received:
 03/18/25

Sample Location: WASHINGTON CROSSING, PA Field Prep: None

Sample Depth:

Matrix: Soil Percent Solids: 82%

Dilution Date Date Prep Analytical

Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Analyst

Parameter Result Qualifier Units MDL Factor Prepared Analyzed Method RL**Analyst** Total Metals - Mansfield Lab Lead, Total 14 mg/kg 0.73 0.06 10 03/20/25 14:31 03/20/25 18:36 EPA 3050B 1,6020B NTB



Project Name: SUNOCO PIPELINE LP (SPLP)

Lab Number: L2515726 **Project Number:** Not Specified

Report Date: 03/21/25

Method Blank Analysis Batch Quality Control

Dilution Date Date Analytical Method Analyst **Result Qualifier Factor Prepared** Analyzed **Parameter Units** RLMDL Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG2043052-1 Lead, Total ND mg/kg 0.60 0.05 10 03/20/25 18:04 1,6020B NTB 03/20/25 14:31

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP) Not Specified

Project Number:

Lab Number:

L2515726

Report Date:

03/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Total Metals - Mansfield Lab Associated sar	mple(s): 01-02	Batch: W	G2043052-2						
Lead, Total	90		-		80-120	-		20	



Matrix Spike Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number:

L2515726

Report Date:

03/21/25

Parameter Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recove Qual Limits	,	RPD _{Ial} Limits
Total Metals - Mansfield Lab	Associated san	nple(s): 01-02	QC Ba	tch ID: WG204	3052-3	QC San	nple: L2515726-	01 Client ID:	RW-1@1'-2'	
Lead, Total	ND	51.4	57	111		-	-	75-125	-	20



L2515726

Lab Duplicate Analysis

Batch Quality Control

Lab Number: **Project Name:** SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified Report Date: 03/21/25

Parameter	Native Sample	Duplicate S	Duplicate Sample		RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-0)2 QC Batch ID:	WG2043052-4 Q	C Sample:	L2515726-01	Client ID:	RW-1@1'-2	2'
Lead, Total	ND	8.9		mg/kg	NC		20



INORGANICS & MISCELLANEOUS



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2515726

Project Number: Not Specified Report Date: 03/21/25

SAMPLE RESULTS

Lab ID: L2515726-01 Date Collected: 03/18/25 14:40

Client ID: RW-1@1'-2' Date Received: 03/18/25 Sample Location: WASHINGTON CROSSING, PA Field Prep: None

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	Dilution Date MDL Factor Prepare		Date Prepared	Date Analyzed	Analytical Method	Analyst	
General Chemistry -	Westborough Lab										
Solids, Total	81.5		%	0.100	NA	1	-	03/19/25 20:56	121,2540G	SJB	



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2515726

Project Number: Not Specified Report Date: 03/21/25

SAMPLE RESULTS

Lab ID: L2515726-02 Date Collected: 03/18/25 14:45

Client ID: RW-1@4'-5' Date Received: 03/18/25 Sample Location: WASHINGTON CROSSING, PA Field Prep: None

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Date MDL Factor Prepared		Date Analyzed	Analytical Method	Analyst	
General Chemistry -	Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	03/19/25 20:56	121,2540G	SJB	



Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number:

L2515726

Report Date:

03/21/25

Parameter	Native Sam	ple D	uplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID:	WG2042688-1	QC Sample:	L2515418-02	Client ID:	DUP Sample
Solids, Total	84.6		85.2	%	1		20



SUNOCO PIPELINE LP (SPLP) Lab Number: L2515726 Project Number: Not Specified

Report Date: 03/21/25

Sample Receipt and Container Information

YES Were project specific reporting limits specified?

Cooler Information

Project Name:

Occide information	
Cooler	Custody Seal
A	Absent
В	Absent
С	Absent
D	Absent
Е	Absent

Container Info	ormation	Initial	Final	Temp			Frozen		
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2515726-01A	Vial MeOH preserved	Α	NA		3.3	Υ	Absent		PA-8260HLW(14)
L2515726-01B	Vial water preserved	Α	NA		3.3	Υ	Absent	19-MAR-25 06:15	PA-8260HLW(14)
L2515726-01C	Vial water preserved	Α	NA		3.3	Υ	Absent		ARCHIVE()
L2515726-01D	Plastic 120ml unpreserved	Α	NA		3.3	Υ	Absent		TS(7)
L2515726-01E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.3	Υ	Absent		PB-6020T(180)
L2515726-02A	Vial MeOH preserved	Α	NA		3.3	Υ	Absent		PA-8260HLW(14)
L2515726-02B	Vial water preserved	Α	NA		3.3	Υ	Absent	19-MAR-25 06:15	PA-8260HLW(14)
L2515726-02C	Vial water preserved	Α	NA		3.3	Υ	Absent	19-MAR-25 06:15	PA-8260HLW(14)
L2515726-02D	Plastic 120ml unpreserved	Α	NA		3.3	Υ	Absent		TS(7)
L2515726-02E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.3	Υ	Absent		PB-6020T(180)

Container Comments

Container Received Empty. L2515726-01C



Project Name: Lab Number: SUNOCO PIPELINE LP (SPLP) L2515726 **Report Date: Project Number:** Not Specified 03/21/25

GLOSSARY

Acronyms

LCSD

LOD

MS

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).

Laboratory Control Sample Duplicate: Refer to LCS.

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.

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.

- 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

> 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

MDI - 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.

> - 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.

TEO - 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:SUNOCO PIPELINE LP (SPLP)Lab Number:L2515726Project Number:Not SpecifiedReport Date:03/21/25

Footnotes

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

Terms

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

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

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

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

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic

peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- 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 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
 of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2515726Project Number:Not SpecifiedReport Date:03/21/25

Data Qualifiers

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

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



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2515726Project Number:Not SpecifiedReport Date:03/21/25

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Revision 27

Published Date: 01/24/2025

Page 1 of 2

ID No.:17873

Certification Information

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

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

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS

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

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

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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

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

Nonpotable Water: EPA RSK-175 Dissolved Gases

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

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

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

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

EPA 180.1, SM2130B, 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 II, 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

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

Pre-Qualtrax Document ID: 08-113 Document Type: Form

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025

Page 2 of 2

Certification IDs:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

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

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113

Pace Pace* Location Request	ted (City/S	tate):	СН	AIN-OF-C	USTODY	Analytical R	tequest I	Docum	nent	1		TO THE REAL PROPERTY.	松 園	- [ES	5726 – PA	-1	ER	
410 Eagleview Blvd, Suite 110 Exton, PA 19341				Centar/Name 16 Simplanie Grillo Whann (610) 458-1077x3064 / (810) 458-2300 I-Mail: SGrillo@gesonline.com; gesinbox@gesonline.com; Call-Mail: CTELLOuis - Communication (Mail: Special Communication) (Mail: Special Co										Sc	Scen OR Code for instructions:				
Sunoco Pipeline LP (SPLP) Washington Crossing Star Cutterson Information In [as applicable): Washington Crossing, PA				hyecs to: gas-invoicas@gesonline.com hyecs 6-mail: gas-invoices@gesonline.com finctions 0stat x (ii sunbane 0stat x (ii sunbane 0stat x (ii sunbane): 0225040-08-180								3	Mastily Contr	inor Fres	Container Size ** Ten Preservative Type***			**Container Size: (17 1c, 12) 500m; (fil 200m; (ii) 155m; (ii) 100m; (ii) 40m; (iii) (f) 1 rCine; (iii) 3 renCore; (iii) 50m; (iii) 60m; (iii) 7 rCine; (iii) 60m; (ii) 10m; (ii) 10m; (iii) 10c; (ii) 10m; (iii) 2 r. Arelore; (ii) 10m; 50.4; (iii) 2 rd.	
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EW-16 4'-5'	SS	6	3	18 25	1 1						X	X							
Additional Instructions from Page*: VOCs by EPA 524.2 list: BTEX, Isopropy 1,2,4-Trimothylbenzene, 1,3,5-Trimethylb	/lbenzene, /lbenzene, /l,	ATBE, 2-Dich	Naph	lhalene, hane	Collected By Printed Name	DAN SIN	10				patrimer Delere		/ Special Co		/ Pressible		WK (70)	Commendations (CI 1) On Ica	
Particulated by Company Ospitalias		Transition Trans					1	20		3//	0/18/35 1/33			-	Delivered by [] in: Person [Course				



ANALYTICAL REPORT

Lab Number: L2516006

Client: Groundwater & Environmental Services, In

410 Eagleview Blvd Exton, PA 19341

ATTN: Stephanie Grillo Phone: (641) 458-1077

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified Report Date: 03/24/25

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).



Serial_No:03242516:21

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number:

L2516006

Report Date:

03/24/25

Receive Date

LabSampleCollectionSample IDClient IDMatrixLocationDate/Time

L2516006-01 RW-1@10'-11' SOIL WASHINGTON CROSSING, PA 03/19/25 14:55 03/19/25



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2516006Project Number:Not SpecifiedReport Date:03/24/25

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.



Serial_No:03242516:21

Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2516006Project Number:Not SpecifiedReport Date:03/24/25

Case Narrative (continued)

Report Submission

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:

Title: Technical Director/Representative Date: 03/24/25

Melissa Sturgis Melissa Sturgis

Pace

ORGANICS



VOLATILES



L2516006

03/24/25

03/19/25

SUNOCO PIPELINE LP (SPLP) **Project Name:**

Project Number: Not Specified

SAMPLE RESULTS

03/19/25 14:55

Lab Number:

Report Date:

Date Received:

Lab ID: L2516006-01 Date Collected:

Client ID: RW-1@10'-11'

Sample Location: WASHINGTON CROSSING, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Analytical Method: 1,8260D Analytical Date: 03/24/25 02:37

Analyst: AJK 95% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 L	ow - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0019	0.00020	1	
Benzene	0.00025	J	mg/kg	0.00048	0.00016	1	
1,2-Dichloroethane	ND		mg/kg	0.00097	0.00025	1	
Toluene	ND		mg/kg	0.00097	0.00053	1	
1,2-Dibromoethane	ND		mg/kg	0.00048	0.00028	1	
Ethylbenzene	ND		mg/kg	0.00097	0.00014	1	
p/m-Xylene	ND		mg/kg	0.0019	0.00054	1	
o-Xylene	ND		mg/kg	0.00097	0.00028	1	
Xylenes, Total	ND		mg/kg	0.00097	0.00028	1	
Isopropylbenzene	ND		mg/kg	0.00097	0.00010	1	
1,3,5-Trimethylbenzene	ND		mg/kg	0.0019	0.00019	1	
1,2,4-Trimethylbenzene	ND		mg/kg	0.0019	0.00032	1	
Naphthalene	ND		mg/kg	0.0039	0.00063	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	113		70-130	
Toluene-d8	96		70-130	
4-Bromofluorobenzene	134	Q	70-130	
Dibromofluoromethane	108		70-130	



L2516006

Lab Number:

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified Report Date: 03/24/25

Method Blank Analysis Batch Quality Control

Analytical Method:

03/24/25 02:11

1,8260D

Analyst: AJK

Analytical Date:

Parameter	Result	Qualifier	Units	RL	MDL
olatile Organics by EPA 5035 Lo	w - Westboro	ugh Lab fo	r sample(s):	01 Batch:	WG2044491-5
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Toluene	ND		mg/kg	0.0010	0.00054
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
Naphthalene	ND		mg/kg	0.0040	0.00065

		Acceptance				
Surrogate	%Recovery (Qualifier Criteria				
4.2 Dishlorosthana d4	400	70.420				
1,2-Dichloroethane-d4	108	70-130				
Toluene-d8	93	70-130				
4-Bromofluorobenzene	102	70-130				
Dibromofluoromethane	100	70-130				



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number: L2516006

Report Date: 03/24/25

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	/ RPD	Qual	RPD Limits
olatile Organics by EPA 5035 Low	- Westborough Lab	Associated s	ample(s): 01	Batch:	WG2044491-3	WG2044491-4		
Methyl tert butyl ether	111		114		66-130	3		30
Benzene	101		105		70-130	4		30
1,2-Dichloroethane	112		113		70-130	1		30
Toluene	80		81		70-130	1		30
1,2-Dibromoethane	95		98		70-130	3		30
Ethylbenzene	80		82		70-130	2		30
p/m-Xylene	85		86		70-130	1		30
o-Xylene	87		89		70-130	2		30
Isopropylbenzene	78		80		70-130	3		30
1,3,5-Trimethylbenzene	80		83		70-130	4		30
1,2,4-Trimethylbenzene	81		84		70-130	4		30
Naphthalene	91		92		70-130	1		30

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107	108	70-130
Toluene-d8	92	92	70-130
4-Bromofluorobenzene	100	101	70-130
Dibromofluoromethane	104	102	70-130



METALS



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2516006 **Project Number:** Not Specified **Report Date:** 03/24/25

SAMPLE RESULTS

Lab ID: Date Collected: L2516006-01 03/19/25 14:55 Client ID: RW-1@10'-11' Date Received: 03/19/25

Sample Location: WASHINGTON CROSSING, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil 95% Percent Solids:

Prep Dilution Date Date **Analytical** Method Result Qualifier Units MDL Factor Prepared Analyzed Method RL

Parameter Analyst Total Metals - Mansfield Lab Lead, Total 14 mg/kg 0.61 0.05 10 03/20/25 14:31 03/20/25 20:31 EPA 3050B 1,6020B NTB



Project Name: SUNOCO PIPELINE LP (SPLP)

Lab Number: L2516006

Project Number: Not Specified Report Date: 03/24/25

Method Blank Analysis Batch Quality Control

Dilution Date Date Analytical Method Analyst **Result Qualifier Factor Prepared** Analyzed **Parameter Units** RLMDL Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2043052-1 Lead, Total ND mg/kg 0.60 0.05 10 03/20/25 18:04 1,6020B NTB 03/20/25 14:31

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Lab Number:

L2516006

Project Number: Not Specified

Report Date:

03/24/25

Parameter	LCS %Recovery Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Total Metals - Mansfield Lab Associated sam	ple(s): 01 Batch: WG	2043052-2						
Lead, Total	90	-		80-120	-		20	



Matrix Spike Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified

Lab Number:

L2516006

Report Date:

03/24/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		ecovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab	Associated sam	nple(s): 01	QC Batch	ID: WG204305	2-3 C	QC Sample	e: L2515726-01	Client II	D: MS Sa	ample		
Lead, Total	ND	51.4	57	111		-	-		75-125	-		20



L2516006

Lab Number:

Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Batch Quality

Project Number: Not Specified **Report Date:** 03/24/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG20430	052-4 QC Sample: I	L2515726-01	Client ID:	OUP Sample	
Lead, Total	ND	8.9	mg/kg	NC		20



INORGANICS & MISCELLANEOUS



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2516006

Project Number: Not Specified Report Date: 03/24/25

SAMPLE RESULTS

Lab ID: L2516006-01 Date Collected: 03/19/25 14:55

Client ID: RW-1@10'-11' Date Received: 03/19/25
Sample Location: WASHINGTON CROSSING, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result Q	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	95.0		%	0.100	NA	1	-	03/20/25 14:49	121,2540G	KJL



Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified Lab Number:

L2516006

Report Date:

03/24/25

Parameter	Native Sample	Duplicate Sam	ple Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01 QC Batch ID:	WG2043090-1	QC Sample: L2	515411-01	Client ID:	DUP Sample
Solids, Total	96.4	96.1	%	0		20



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: Not Specified Report Date: 03/24/25

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Information			Initial	Final	Temp			Frozen		
Container ID	Container Type	Cooler	рН	pH pH deg C Pres Seal		Date/Time	Analysis(*)			
L2516006-01A	Vial MeOH preserved	Α	NA		3.3	Υ	Absent		PA-8260HLW(14)	
L2516006-01B	Vial water preserved	Α	NA		3.3	Υ	Absent	20-MAR-25 06:27	PA-8260HLW(14)	
L2516006-01C	Vial water preserved	Α	NA		3.3	Υ	Absent	20-MAR-25 06:27	PA-8260HLW(14)	
L2516006-01D	Plastic 120ml unpreserved	Α	NA		3.3	Υ	Absent		TS(7)	
L2516006-01E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.3	Υ	Absent		PB-6020T(180)	



Project Name: Lab Number: SUNOCO PIPELINE LP (SPLP) L2516006 **Report Date: Project Number:** Not Specified 03/24/25

GLOSSARY

Acronyms

LOQ

MS

NP

RPD

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.)

> - 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

> 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

MDI - 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.

> - 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.

- 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.

- 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.

TEO - 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:SUNOCO PIPELINE LP (SPLP)Lab Number:L2516006Project Number:Not SpecifiedReport Date:03/24/25

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert but

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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2516006Project Number:Not SpecifiedReport Date:03/24/25

Data Qualifiers

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

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



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2516006Project Number:Not SpecifiedReport Date:03/24/25

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

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Published Date: 01/24/2025

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: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS.

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

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

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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

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

Nonpotable Water: EPA RSK-175 Dissolved Gases

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

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

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

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

EPA 180.1, SM2130B, 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 II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

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

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

Document Type: Form Pre-Qualtrax Document ID: 08-113

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025

Page 2 of 2

Certification IDs:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

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

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113

125/6606

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Street Address: 410 Eagleview Blvd, Suite 1	110 Exton, PA 1	9341			077x3064 /												
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Customer Project #:	101 - 102 - 1		-	Mark the second	nces@geso					_							
Project Name: Sunoco Pipeline LP (SPLP) Wa	shington Cross	ing	Invoice E-i	Mail: ges-i	nvoinces@	gesonline,	com				Sp	ecify C	ontain	er Size			Container Star. (1) 11, (2) 500 mL, (3) 250 mL, (4) 25 mL, (5) 100 mL, (6) 40 mL vist, (7) EnCore, (8)
Site Collection Info/Facility ID (if applicable Crossing, PA): Washington		Purchase (Order # (if	applicable)	0225040	06-160			6	6	3	e Dence	months	Type***	10	erraCore, (9) Other ** (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaO
			Quote #:	_		_			_		8	2	r Prese	rvativi	туре	_	40 mL vial.(7) NaH5O4,(8) Sod. Thiosufate,(9) corbic Acid.(10) MeOH.(11) Other
Time Zone Collected: [] AX [] PT [] MT [] CT [X] ET	_	_	-	ate origin	of sample(d: PA			_	4			sis Requ	onet and	_	-	Pros Mer.
Data Deliverables:	Regulatory	Program (DW, RCRA, etc. 1			di ses						Analy:	sis kedi	Jesteo		-	the state of the s
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[X] EQUIS	The second second	ALCO TO	y [5 day [4					MY	0	電					
[] Other:			equested: ASAP Field Fixered (# applicable): [X] Yes [] No Analysis: Lead				(EPH SE	1,2-Dibromoethane (EDB)	HOP (EPA	ds				Table #			
*Matrix Codes (insert in Matrix box helow) Drinking Water (DW), Gras (2007, Sectionals (2007, Sungeral), Casto (C)	und Weer (CM), Wete	Water (VWV)	Preduct (P), Sec	(75), CB (C	OCJ., White (MP), To	our (T)), Birnesi	v(II).Vapor(V), Other (OI), 5	sarface Water	VOCS	romo	TO THE	18				Prome/Templana
Customer Sample ID	Matric	Comp/ Grab	Collecte	d (Start)	Comp	osta End Time	# cont.	Cont	& Type of tainers	Target \	2-Dlb	Lead (d)	- 0			L	severe
RU-1010-11	.DW	G	3/19/25		-	-	5,8	Plante 1	Shu	X	K	×) X			+	Sample Comment #
														-			
				-													
Additional Instructions from Pace: Target VOCs to Isopropylbenzene, MTBE, Naphthalene, 1,2,4-7d. Trimethylbenzene, 1,2-Dichloroethane	W. Commission of the Commissio	2000000		Collected By: Signature					Customer R Ricoolers	emarks/	Therma		Possible H		n Factor Ter	mp(*G	Corrected Temp(*Cl Jonice
Relinquaried by / Company (Signature	-/(ES	3.1191	25 1	520	finc niver By	mpany (Si	Chil)	19	1/3	3	3	19	1/25	15	2	Forething B
Relinquished By / Company (Signature Relinquished B) / Flormony (Signature	PACE		Gata/Esta	25	1840	Received by	Company (5)	grature)				-	Date/I'd	1/5	1	340	Delivered By: Tim Person 1 County T FedEX TUP TOURS
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ANALYTICAL REPORT

Lab Number: L2532282

Client: Groundwater & Environmental Services, In

410 Eagleview Blvd Exton, PA 19341

ATTN: Stephanie Grillo Phone: (641) 458-1077

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 Report Date: 06/02/25

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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).



Serial_No:06022516:10

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532282

Report Date:

06/02/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2532282-01	RW-2-0708	SOIL	E-25060-RL-25300050	05/20/25 10:00	05/22/25



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2532282Project Number:PROJ-051861Report Date:06/02/25

Case Narrative

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

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

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

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

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

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



Serial_No:06022516:10

Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2532282Project Number:PROJ-051861Report Date:06/02/25

Case Narrative (continued)

Report Submission

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

Volatile Organics

The water-preserved VOA vials for Volatile Organics Low-Level analysis were received at the laboratory beyond the 48 hour holding time required for freezing. The client was notified and the results of the analysis are reported.

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:

Title: Technical Director/Representative Date: 06/02/25

Melissa Sturgis Melissa Sturgis

Pace

ORGANICS



VOLATILES



Serial_No:06022516:10

L2532282

06/02/25

SUNOCO PIPELINE LP (SPLP) **Project Name:**

L2532282-01

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 05/20/25 10:00

Date Received: 05/22/25

Lab Number:

Report Date:

Client ID: RW-2-0708 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Lab ID:

Matrix: Soil Analytical Method: 1,8260D Analytical Date: 05/30/25 13:52

Analyst: JIC 77% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 Le	ow - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0031	0.00031	1	
Benzene	ND		mg/kg	0.00077	0.00026	1	
1,2-Dichloroethane	ND		mg/kg	0.0015	0.00040	1	
Toluene	ND		mg/kg	0.0015	0.00084	1	
1,2-Dibromoethane	ND		mg/kg	0.00077	0.00045	1	
Ethylbenzene	ND		mg/kg	0.0015	0.00022	1	
p/m-Xylene	ND		mg/kg	0.0031	0.00087	1	
o-Xylene	ND		mg/kg	0.0015	0.00045	1	
Xylenes, Total	ND		mg/kg	0.0015	0.00045	1	
Isopropylbenzene	ND		mg/kg	0.0015	0.00017	1	
1,3,5-Trimethylbenzene	ND		mg/kg	0.0031	0.00030	1	
1,2,4-Trimethylbenzene	ND		mg/kg	0.0031	0.00052	1	
Naphthalene	ND		mg/kg	0.0062	0.0010	1	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	117	70-130	
Toluene-d8	96	70-130	
4-Bromofluorobenzene	100	70-130	
Dibromofluoromethane	104	70-130	



L2532282

Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number:

Project Number: PROJ-051861 Report Date: 06/02/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 05/30/25 09:21

Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
olatile Organics by EPA 5035 L	ow - Westboro	ugh Lab fo	r sample(s):	01 Batch:	WG2073162-5
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Toluene	ND		mg/kg	0.0010	0.00054
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
Naphthalene	ND		mg/kg	0.0040	0.00065

		Acceptance	е
Surrogate	%Recovery 0	Qualifier Criteria	
1,2-Dichloroethane-d4	98	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	99	70-130	
Dibromofluoromethane	97	70-130	



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number: L253

L2532282

Report Date: 06/02/25

nrameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	r RPD	Qual	RPD Limits
platile Organics by EPA 5035 Low	- Westborough Lab	Associated sa	ample(s): 01	Batch: \	WG2073162-3	WG2073162-4		
Methyl tert butyl ether	92		87		66-130	6		30
Benzene	88		89		70-130	1		30
1,2-Dichloroethane	87		85		70-130	2		30
Toluene	88		88		70-130	0		30
1,2-Dibromoethane	90		88		70-130	2		30
Ethylbenzene	91		91		70-130	0		30
p/m-Xylene	92		92		70-130	0		30
o-Xylene	91		92		70-130	1		30
Isopropylbenzene	94		95		70-130	1		30
1,3,5-Trimethylbenzene	95		96		70-130	1		30
1,2,4-Trimethylbenzene	95		96		70-130	1		30
Naphthalene	93		91		70-130	2		30

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95	94	70-130
Toluene-d8	100	100	70-130
4-Bromofluorobenzene	104	104	70-130
Dibromofluoromethane	97	97	70-130



METALS



Serial_No:06022516:10

1,6020B

SMV

06/02/25 10:07 06/02/25 12:41 EPA 3050B

Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2532282Project Number:PROJ-051861Report Date:06/02/25

SAMPLE RESULTS

 Lab ID:
 L2532282-01
 Date Collected:
 05/20/25 10:00

 Client ID:
 RW-2-0708
 Date Received:
 05/22/25

Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

0.76

mg/kg

Sample Depth:

Lead, Total

Matrix: Soil Percent Solids: 77%

21

Prep Dilution Date Date **Analytical** Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab

10

0.07

Pace

Serial_No:06022516:10

L2532282

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 **Report Date:**

06/02/25

Lab Number:

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mansfield	Lab for sample(s):	01 Batch	: WG20	073853-	1				
Lead, Total	ND	mg/kg	0.60	0.05	10	06/02/25 10:07	06/02/25 12:08	1,6020B	SMV

Prep Information

Digestion Method: EPA 3050B



L2532282

06/02/25

Lab Number:

Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Total Metals - Mansfield Lab Associated sar	mple(s): 01 Bat	ch: WG2	073853-2						
Lead, Total	101		-		80-120	-		20	



Matrix Spike Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532282

Report Date:

06/02/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield	Lab Associated sam	nple(s): 01	QC Batch	ID: WG207385	3-3 (QC Sample	e: L2532281-01	Client	t ID: MS Sa	ample		
Lead, Total	12	49	58	94		-	-		75-125	-		20



Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 Lab Number:

Report Date:

L2532282

06/02/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG20738	53-4 QC Sample:	L2532281-01	Client ID:	DUP Sample	
Lead, Total	12	16	mg/kg	29	Q	20



INORGANICS & MISCELLANEOUS



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2532282

Project Number: PROJ-051861 Report Date: 06/02/25

SAMPLE RESULTS

Lab ID: L2532282-01 Date Collected: 05/20/25 10:00

Client ID: RW-2-0708 Date Received: 05/22/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	76.6		%	0.100	NA	1	-	05/24/25 02:41	121,2540G	JMN



L2532282

Lab Number:

Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 Report Date: 06/02/25

Parameter	Native Sample	Duplicate Sam	ple Units	RPD	Qual	RPD Limits	
General Chemistry - Westborough Lab	Associated sample(s): 01 QC Batch ID:	WG2070700-1	QC Sample: L2	531079-01	Client ID: I	DUP Sample	
Solids, Total	83.6	85.0	%	2		20	



SUNOCO PIPELINE LP (SPLP)

Lab Number: L2532282

Project Number: PROJ-051861 Report Date: 06/02/25

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Project Name:

Cooler Custody Seal

A Absent

Container Info	rmation		Initial	Final	Temp			Frozen		
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)	
L2532282-01A	Vial MeOH preserved	Α	NA		2.2	Υ	Absent		PA-8260HLW(14)	
L2532282-01B	Vial water preserved	Α	NA		2.2	Υ	Absent	23-MAY-25 10:40	PA-8260HLW(14)	
L2532282-01C	Vial water preserved	Α	NA		2.2	Υ	Absent	23-MAY-25 10:40	PA-8260HLW(14)	
L2532282-01D	Plastic 2oz unpreserved for TS	Α	NA		2.2	Υ	Absent		TS(7)	
L2532282-01E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.2	Υ	Absent		PB-6020T(180)	



GLOSSARY

Acronyms

LOQ

MS

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)

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.)

- 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.

- 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.



Footnotes

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

Terms

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

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

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

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

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl

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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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



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.
- 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.)



REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 27

Published Date: 01/24/2025

Page 1 of 2

Certification Information

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

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

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS

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

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

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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

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

Nonpotable Water: EPA RSK-175 Dissolved Gases

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

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

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

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

EPA 180.1, SM2130B, 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 II, 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

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

Pre-Qualtrax Document ID: 08-113 Document Type: Form

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025

Page 2 of 2

Certification IDs:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

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

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113

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Company Name: GES, Inc.				Report T			nes.			-							TO CHARLES AND ADDRESS OF THE	
Street Address: #10 Eagleview Blvd, Sun	e 110 Exton,	PA 193	11 Phone #	(610 458	3-1077x30	054 / (610)	458-230	0	_	1								
						om, gesini , labresubs)												
Customer Project #:		_	Invoice 1	o: Energy	Transfer		_	_		-								
Project Name: Sunoco Pipeline LP (SPLP Crossing) Washington	1				ulhorgener	mytranider c	om		-	5)	ecify	Contai	ner Siz	6.71		**Continuer Stor. (7) TL: (2) 500 ml. (3) 125 pt. (5) 300 ml. (6) 40 ml val. (7) to	
Site Collection Info/Facility ID (if applica Crossing, Upper Makefield Township, PA	ible): Washir	ngton	Purchasi	Order II	(if applica	ble):1122	03239			2.	6	5		5	I		Telepident, (fi) Galler	
			Quote #:		_		_	_	_	Ide	TEV.	ontai	ner Pre	servati I A	ive Typ	e***	*** (1) hone, (2) (INOS, (3) (ISSO4, (4) ((0) 40 m) (UL. (7) NACOA, (8) Soil, Thio Accorbic Acid, (30) AssOH, (11) Other	CL (S) PROF militare, (9)
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[] Other:			equested:		Analyzin Li					gasoline (EPA 8260)	E. cumene, naph 1,3,5-TMB, EDC	or 6010)	1,2-Dibromoethane (EDB (EPA 8260)				S Teble #	ermence ide
Materia Cristo (Inter-Lis Materia time babba) (Devering Water (DW), No Face Water (SW), Sectional (MES, Disclar Proj. 1 and (1)	Fireward Warter (1741)), Venste stoe	er (WW), Produc	Pl. Selfreid	CITY OF LOTT A	SPY SVP1 TRANS	e (FS), #484eDay	(N), Nissee (V)	Ottav (OT)		BE, cur	4 7420	omoeth	e e			Prafile/Temple	non-conft
Customer Sample ID	Metric	Correct Grain	Collego	til (Start)	Come	Time	# cont.	Con	& Type of letters	PA Leaded	L.2,4-TMB,	Lead (EPA	1,2-Dibrort EPA 82501	Moisture		15		eration
RW-2 - 0708	SO	G	5/20/29	-		1,000	5	Plette	Glass	1	m ⊷ m		H W	-		-	Sample Comment	差
RW-2	so	6	JIPOJE,			-	2	0	5	X		X	X	X	-			
							-	0	5	×		X	X	X	14			
Additional instructions from Pace: Target VOCs	bu 6049350 III	- NYCH		Collected By.														
scoroovihenzene, MTBE_Naphthalene, 1,2,4-1 rimethylbenzene, 1,2-Dichloroothane	rimethylbenze	mm, 1,3,5		Sugname /	micha	el Ha	erebo	Ouch	Customay 9	imads/	Thetrois					Temp (**	(C) Concepted Terror (*C)	on kee
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Co	a Pos	40	5/2	3/25	04		-	1	2		c	12	3 0	400	-	61	10	



ANALYTICAL REPORT

Lab Number: L2532283

Client: Groundwater & Environmental Services, In

410 Eagleview Blvd Exton, PA 19341

ATTN: Stephanie Grillo Phone: (641) 458-1077

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 Report Date: 06/02/25

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

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



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532283

Report Date:

06/02/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2532283-01	RW-3-0203	SOIL	E-25060-RL-25300050	05/19/25 14:00	05/22/25



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:SUNOCO PIPELINE LP (SPLP)Lab Number:L2532283Project Number:PROJ-051861Report Date:06/02/25

Case Narrative (continued)

Report Submission

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

Volatile Organics

The water-preserved VOA vials for Volatile Organics Low-Level analysis were received at the laboratory beyond the 48 hour holding time required for freezing. The client was notified and the results of the analysis are reported.

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:

Title: Technical Director/Representative Date: 06/02/25

Melissa Sturgis Melissa Sturgis

Pace

ORGANICS



VOLATILES



L2532283

06/02/25

Not Specified

05/22/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 05/19/25 14:00

Lab Number:

Report Date:

Date Received:

Field Prep:

Lab ID: L2532283-01

Client ID: RW-3-0203

Sample Location: E-25060-RL-25300050

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/31/25 15:39

Analyst: JIC Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Wes	tborough Lab					
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
Benzene	ND		mg/kg	0.00053	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Toluene	ND		mg/kg	0.0010	0.00057	1
1,2-Dibromoethane	ND		mg/kg	0.00053	0.00031	1
Ethylbenzene	0.00029	J	mg/kg	0.0010	0.00015	1
p/m-Xylene	0.0015	J	mg/kg	0.0021	0.00059	1
o-Xylene	0.0012		mg/kg	0.0010	0.00031	1
Xylenes, Total	0.0027	J	mg/kg	0.0010	0.00031	1
Isopropylbenzene	0.00068	J	mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	0.016		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	0.043		mg/kg	0.0021	0.00035	1
Naphthalene	0.068		mg/kg	0.0042	0.00068	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	104	70-130	
Dibromofluoromethane	97	70-130	



L2532283

Lab Number:

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 Report Date: 06/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 05/31/25 14:49

Analyst: MNF

Parameter	Result	Qualifier	Units	RL		MDL
olatile Organics by EPA 5035 Lo	w - Westboro	ugh Lab fo	r sample(s):	01	Batch:	WG2073640-5
Methyl tert butyl ether	ND		mg/kg	0.002	0	0.00020
Benzene	ND		mg/kg	0.0005	50	0.00017
1,2-Dichloroethane	ND		mg/kg	0.001	0	0.00026
Toluene	ND		mg/kg	0.001	0	0.00054
1,2-Dibromoethane	ND		mg/kg	0.0005	50	0.00029
Ethylbenzene	ND		mg/kg	0.001	0	0.00014
p/m-Xylene	ND		mg/kg	0.002	0	0.00056
o-Xylene	ND		mg/kg	0.001	0	0.00029
Xylenes, Total	ND		mg/kg	0.001	0	0.00029
Isopropylbenzene	ND		mg/kg	0.001	0	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.002	0	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.002	0	0.00033
Naphthalene	ND		mg/kg	0.004	0	0.00065

		Acceptance
Surrogate	%Recovery Qu	ualifier Criteria
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	99	70-130
Dibromofluoromethane	92	70-130



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number: L253

L2532283

Report Date: 06/02/25

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	r RPD	Qual	RPD Limits
platile Organics by EPA 5035 Low - Wes	tborough Lab	Associated sa	ample(s): 01	Batch:	WG2073640-3	WG2073640-4		
Methyl tert butyl ether	95		90		66-130	5		30
Benzene	108		97		70-130	11		30
1,2-Dichloroethane	104		96		70-130	8		30
Toluene	108		99		70-130	9		30
1,2-Dibromoethane	96		93		70-130	3		30
Ethylbenzene	112		102		70-130	9		30
p/m-Xylene	116		105		70-130	10		30
o-Xylene	113		104		70-130	8		30
Isopropylbenzene	118		103		70-130	14		30
1,3,5-Trimethylbenzene	117		104		70-130	12		30
1,2,4-Trimethylbenzene	118		105		70-130	12		30
Naphthalene	100		93		70-130	7		30

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99	103	70-130
Toluene-d8	104	103	70-130
4-Bromofluorobenzene	98	96	70-130
Dibromofluoromethane	98	98	70-130



METALS



Project Name:SUNOCO PIPELINE LP (SPLP)Lab Number:L2532283Project Number:PROJ-051861Report Date:06/02/25

SAMPLE RESULTS

 Lab ID:
 L2532283-01
 Date Collected:
 05/19/25 14:00

 Client ID:
 RW-3-0203
 Date Received:
 05/22/25

Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 89%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analyst

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analyst

Total Metals - Mansfield Lab

Lead, Total 29 mg/kg 0.65 0.06 10 06/02/25 10:07 06/02/25 12:45 EPA 3050B 1,6020B SMV



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SUNOCO PIPELINE LP (SPLP)

Lab Number: L2532283

Report Date: 06/02/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	Analyst
Total Metals - Mansfield	Lab for sample(s):	01 Batch	: WG20	073853-	1				
Lead, Total	ND	mg/kg	0.60	0.05	10	06/02/25 10:07	06/02/25 12:08	3 1,6020B	SMV

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Lab Number:

L2532283

Project Number: PROJ-051861

Report Date:

06/02/25

Parameter	LCS %Recovery	LCSD Qual %Recovery	%Recovery Qual Limits	RPD	Qual RPD Limits	
Total Metals - Mansfield Lab Associated sa	ample(s): 01 Batcl	h: WG2073853-2				
Lead, Total	101	-	80-120	-	20	



Matrix Spike Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532283

Report Date:

06/02/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab	Associated sam	nple(s): 01	QC Batch	ID: WG207385	3-3	QC Sample	e: L2532281-01	Client	t ID: MS Sa	ample		
Lead, Total	12	49	58	94		-	-		75-125	-		20



L2532283

Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

ality Control Lab Number:

Report Date: 06/02/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG20738	353-4 QC Sample: I	L2532281-01	Client ID: D	OUP Sample	
Lead, Total	12	16	mg/kg	29	Q	20



INORGANICS & MISCELLANEOUS



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2532283

Project Number: PROJ-051861 Report Date: 06/02/25

SAMPLE RESULTS

Lab ID: L2532283-01 Date Collected: 05/19/25 14:00

Client ID: RW-3-0203 Date Received: 05/22/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	88.6		%	0.100	NA	1	-	05/24/25 02:41	121,2540G	JMN



L2532283

Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Quality Control Lab Number:

Report Date: 06/02/25

Parameter	Native Sample	Duplicate Sam	ple Units	RPD	Qual	RPD Limits	
General Chemistry - Westborough Lab As	ssociated sample(s): 01 QC Batch ID:	WG2070700-1	QC Sample: L2	2531079-01	Client ID:	DUP Sample	
Solids, Total	83.6	85.0	%	2		20	



SUNOCO PIPELINE LP (SPLP)

Lab Number: L2532283

Project Number: PROJ-051861 Report Date: 06/02/25

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Project Name:

Cooler Custody Seal

A Absent

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2532283-01A	Vial MeOH preserved	Α	NA		2.2	Υ	Absent		PA-8260HLW(14)
L2532283-01B	Vial water preserved	Α	NA		2.2	Υ	Absent	23-MAY-25 10:40	PA-8260HLW(14)
L2532283-01C	Vial water preserved	Α	NA		2.2	Υ	Absent	23-MAY-25 10:40	PA-8260HLW(14)
L2532283-01D	Plastic 120ml unpreserved	Α	NA		2.2	Υ	Absent		TS(7)
L2532283-01E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.2	Υ	Absent		PB-6020T(180)



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

 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.

- 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.

MS

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.



Footnotes

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

Terms

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

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

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

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

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl

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, Benza(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.
- 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 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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



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.
- 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.)



REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025 Page 1 of 2

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: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS.

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

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

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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

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

Nonpotable Water: EPA RSK-175 Dissolved Gases

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

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

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

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

EPA 180.1, SM2130B, 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 II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

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

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

Document Type: Form Pre-Qualtrax Document ID: 08-113

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 27

Published Date: 01/24/2025

Page 2 of 2

Certification IDs:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

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

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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

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

Document Type: Form

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ANALYTICAL REPORT

Lab Number: L2532281

Client: Groundwater & Environmental Services, In

410 Eagleview Blvd Exton, PA 19341

ATTN: Stephanie Grillo Phone: (641) 458-1077

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861 Report Date: 06/02/25

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

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



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532281

Report Date:

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2532281-01	RW-4-0405	SOIL	E-25060-RL-25300050	05/19/25 16:00	05/22/25



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:SUNOCO PIPELINE LP (SPLP)Lab Number:L2532281Project Number:PROJ-051861Report Date:06/02/25

Case Narrative (continued)

Report Submission

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

Volatile Organics

The water-preserved VOA vials for Volatile Organics Low-Level analysis were received at the laboratory beyond the 48 hour holding time required for freezing. The client was notified and the results of the analysis are reported.

Total Metals

The WG2073853-4 Laboratory Duplicate RPD performed on L2532281-01 is outside the acceptance criteria for lead (29%) due to the non-homogeneous nature of the native sample.

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:

Title: Technical Director/Representative Date: 06/02/25

Melissa Sturgis Melissa Sturgis

Pace

ORGANICS



VOLATILES



L2532281

06/02/25

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

SAMPLE RESULTS

Date Collected: 05/19/25 16:00

Lab ID: L2532281-01 Client ID: RW-4-0405

Sample Location: E-25060-RL-25300050

Date Received: 05/22/25
Field Prep: Not Specified

Lab Number:

Report Date:

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/30/25 13:13

Analyst: JIC Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low -	Westborough Lab					
Methyl tert butyl ether	ND		mg/kg	0.0025	0.00025	1
Benzene	ND		mg/kg	0.00063	0.00021	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00032	1
Toluene	ND		mg/kg	0.0013	0.00068	1
1,2-Dibromoethane	ND		mg/kg	0.00063	0.00037	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	ND		mg/kg	0.0025	0.00070	1
o-Xylene	ND		mg/kg	0.0013	0.00037	1
Xylenes, Total	ND		mg/kg	0.0013	0.00037	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0025	0.00024	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0025	0.00042	1
Naphthalene	ND		mg/kg	0.0050	0.00082	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	•
1,2-Dichloroethane-d4	98	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	101	70-130	
Dibromofluoromethane	99	70-130	



L2532281

Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number:

Project Number: PROJ-051861 Report Date: 06/02/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 05/30/25 09:21

Analyst: JIC

Parameter	Result	Qualifier	Units	RL		MDL
olatile Organics by EPA 5035 Lo	ow - Westboro	ugh Lab fo	r sample(s):	01	Batch:	WG2073162-5
Methyl tert butyl ether	ND		mg/kg	0.0020)	0.00020
Benzene	ND		mg/kg	0.0005	0	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010)	0.00026
Toluene	ND		mg/kg	0.0010)	0.00054
1,2-Dibromoethane	ND		mg/kg	0.0005	0	0.00029
Ethylbenzene	ND		mg/kg	0.0010)	0.00014
p/m-Xylene	ND		mg/kg	0.0020)	0.00056
o-Xylene	ND		mg/kg	0.0010		0.00029
Xylenes, Total	ND		mg/kg	0.0010)	0.00029
Isopropylbenzene	ND		mg/kg	0.0010)	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020)	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020)	0.00033
Naphthalene	ND		mg/kg	0.0040)	0.00065

	Acceptan						
Surrogate	%Recovery (Qualifier Criteria					
1,2-Dichloroethane-d4	98	70-130					
Toluene-d8	100	70-130					
4-Bromofluorobenzene	99	70-130					
Dibromofluoromethane	97	70-130					



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number: L2532281

Report Date: 06/02/25

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	, RPD	Qual	RPD Limits
olatile Organics by EPA 5035 Low	- Westborough Lab	Associated sa	imple(s): 01	Batch:	WG2073162-3	WG2073162-4		
Methyl tert butyl ether	92		87		66-130	6		30
Benzene	88		89		70-130	1		30
1,2-Dichloroethane	87		85		70-130	2		30
Toluene	88		88		70-130	0		30
1,2-Dibromoethane	90		88		70-130	2		30
Ethylbenzene	91		91		70-130	0		30
p/m-Xylene	92		92		70-130	0		30
o-Xylene	91		92		70-130	1		30
Isopropylbenzene	94		95		70-130	1		30
1,3,5-Trimethylbenzene	95		96		70-130	1		30
1,2,4-Trimethylbenzene	95		96		70-130	1		30
Naphthalene	93		91		70-130	2		30

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95	94	70-130
Toluene-d8	100	100	70-130
4-Bromofluorobenzene	104	104	70-130
Dibromofluoromethane	97	97	70-130



METALS



Project Name: Lab Number: SUNOCO PIPELINE LP (SPLP) L2532281 06/02/25

Project Number: PROJ-051861 **Report Date:**

SAMPLE RESULTS

Date Collected:

05/19/25 16:00

Client ID: RW-4-0405

Date Received:

05/22/25

Sample Location:

E-25060-RL-25300050

L2532281-01

Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

83% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Parameter** Result Qualifier Units Factor Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab 12 Lead, Total mg/kg 0.71 0.06 10 06/02/25 10:07 06/02/25 12:18 EPA 3050B 1,6020B SMV



Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532281

Report Date:

06/02/25

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2073853-1									
Lead, Total	ND	mg/kg	0.60	0.05	10	06/02/25 10:07	06/02/25 12:08	1,6020B	SMV

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532281

Report Date:

Parameter	LCS %Recovery Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual RPD Limits	
Total Metals - Mansfield Lab Associated sam	nple(s): 01 Batch: WG2	073853-2					
Lead, Total	101	-		80-120	-	20	



Matrix Spike Analysis Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Project Number: PROJ-051861

Lab Number:

L2532281

Report Date:

<u>Parameter</u>	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits		Qual	RPD Limits
Total Metals - Mansfield L	_ab Associated sam	nple(s): 01	QC Batch	ID: WG207385	3-3 C	QC Sample	e: L2532281-01	Client ID: RW-4	1-0405		
Lead, Total	12	49	58	94		-	-	75-125	-		20



Lab Duplicate Analysis

Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP)

Batch G

Project Number: PROJ-051861

Lab Number:

L2532281

Report Date:

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG20738	853-4 QC Sample:	L2532281-01	Client ID:	RW-4-0405	
Lead, Total	12	16	mg/kg	29	Q	20



INORGANICS & MISCELLANEOUS



Project Name: SUNOCO PIPELINE LP (SPLP) Lab Number: L2532281

Project Number: PROJ-051861 Report Date: 06/02/25

SAMPLE RESULTS

Lab ID: L2532281-01 Date Collected: 05/19/25 16:00

Client ID: RW-4-0405 Date Received: 05/22/25 Sample Location: E-25060-RL-25300050 Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	82.5		%	0.100	NA	1	-	05/24/25 02:41	121,2540G	JMN



L2532281

Lab Number:

Lab Duplicate Analysis
Batch Quality Control

Project Name: SUNOCO PIPELINE LP (SPLP) Batch Quali

Project Number: PROJ-051861 Report Date: 06/02/25

ParameterNative SampleDuplicate SampleUnitsRPDQualRPD LimitsGeneral Chemistry - Westborough LabAssociated sample(s): 01QC Batch ID: WG2070700-1QC Sample: L2531079-01Client ID: DUP SampleSolids, Total83.685.0%220



SUNOCO PIPELINE LP (SPLP) Lab Number: L2532281

Project Number: PROJ-051861 Report Date: 06/02/25

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Project Name:

Cooler Custody Seal

A Absent

Container Information				Final	Temp			Frozen		
Container ID	Container Type	Cooler	рН	pН	deg C Pres		Seal	Date/Time	Analysis(*)	
L2532281-01A	Vial MeOH preserved	Α	NA		2.2	Υ	Absent		PA-8260HLW(14)	
L2532281-01B	Vial water preserved	Α	NA		2.2	Υ	Absent	23-MAY-25 10:40	PA-8260HLW(14)	
L2532281-01C	Vial water preserved	Α	NA		2.2	Υ	Absent	23-MAY-25 10:40	PA-8260HLW(14)	
L2532281-01D	Plastic 120ml unpreserved	Α	NA		2.2	Υ	Absent		TS(7)	
L2532281-01E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.2	Υ	Absent		PB-6020T(180)	



GLOSSARY

Acronyms

EDL

LOD

MS

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.)

 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.

 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

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.

 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



Footnotes

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

Terms

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

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

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

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

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic

peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- 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 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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



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.
- 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



REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 27

Published Date: 01/24/2025

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Certification Information

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

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

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS

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

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

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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

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

Nonpotable Water: EPA RSK-175 Dissolved Gases

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

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

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

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

EPA 180.1, SM2130B, 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 II, 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

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

Pre-Qualtrax Document ID: 08-113 Document Type: Form

Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025

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Certification IDs:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

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

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

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

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113

CHAIN-OF-CUSTODY Analytical Request Document Sustamitting a vample use this classe of eastedy constitutes achieved edges and acceptance of the Pace Terms and Constituted for the Constitute of														L	2532281 ES - PA - ER				
Company Name: 685, Inc.			Contact	/Report T	o: Steoly	one Goile		_	_	-1						UI.	ES-PA-ER		
Street Address: 410 Engleview Blvd, Su	ite 110 Extori,	PA 193	LI Phone # (610 458-1077x3064 / (610) 458-2300							4						RIM			
			E-mail: Sgrillo@gesonline.com; gesinbox@gesonline.com							4									
			CTEH DI	eliverables@	smvatá cor	nc tabrenotta	Boten com	desillors	OU.	-									
Customer Project #:								- Art-Salpan	manus com										
Project Name: Sunoco Pipeline LP (SPL)	D) Washington		_	To: Energy						7									
Crossing			Invoice E-Mail: aprivatives possessor (See any Community Com								5:	perify	Conta	inar Si	**Commun Swe: (3) EL (2) 500 mL (3) 250 mL (4)				
Site Collection Info/Facility ID (if applicable): Washington Crossing, Upper Makefield Township, PA			Purchas	Purchase Order # (if applicable):112203239							Specify Container Size **					145 mil, (5) LOO mil, (n) 40 mil, (n) 10 mil, (7) Inches, (n) ferrations, (9) Other			
			1								- 6 5 5								
			Dumba #	0								Identify Container Preservative Type***					*** (1) Numn. (2) HNUN, (1) H2SO4, (4) HCl, (5) Nut (0) 40 mL vial, (7) NaHSO4, (8) Sed. Throughtage, (5)		
Time Lond Collection JAK 177 JAK 1,101	IX 1 FT		1	Quote #							10 tree 2 1					1	Ascorbic Acid, (20) MeOH, (11) Other		
Data Deliverables:		in Proper		County/State origin of sample(s): PA							Analysis Requested					Proj. Mgr. 0			
Level Level Level V	Hard H. J. L. Company of the Company			(DW, RCIA, etc.) as applicable; DW							90		T	T	T	T	dus		
X J EQUIS		Rush (Pre-approval Re			The state of the s						naphthalene. EDC						AcctRess/ Clente ID		
(Other:				15 day [X] Other: 24							S S	0	(EDB)				4		
(section)	Date R	Date Results Requested: ASAI			AP Field Filtured (If applicable): 1X 1 Yes 1 No						9 B	60109					N Table #		
Alpha Profes (Journa to Edward Lout Learne), Process - Mr. Const.				Afrikysis: Load (WW), Printer (P), Sel/Solat (SS), DR (OL), Wiles (WI), Timer (P), Stonson (W), Vision (V), Differ (OT),					90	S.S-TMB	200	han			1	all seminar			
effore Water (SMI), Sections (SET), Studen (SE), Coult (C)	Comment of the State of the Sta	Starte Wat	er (WWW, France)	(47) Soul/Solut (SS), DE (CIL), W	Nam (MP). Tienes	(PS. Bluesky	(N). Views (V)	Dibar (01)	Saso	3 8	7420	oet			1	Profile/Temptale		
Francisco Francisco de	er Saminla II) State Comp/			Collected (Start) Cox			composite End Ramber & Type of							Moisture			1 100		
Customer Sample ID	Matrix	Grap	Date	Three	Ulimi		If cont.	Engl	pilledri	Lea	PA Leaded gasoline (EPA 8260) BTEX, MTBE, currene, naphtha 1,2.4-TMB, 1,3,5-TMB, EDC	Lead (EPA	A S	oist			- Yang		
W-4 - 0405	SO	G	5/19/05			Titum	-	Plastic	Albino	-	H 17	9	검법	Σ	1		Sample Comment		
	50	G	of L. Hea	TEON		-	5	0	5	X		X	X	X					
WA		- 13					5												
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W-4	30			- 1			-3	0	5	×		X	X	Х	- ~	4			
IW-4	30						3	-0	5	×		×	X	X	- ~	4			
IW-4	30						->	-0	5	×		×	X	X	- ~	4			
(ditional instructions from Pace: Target VCCs	hu FP4\$360 is-	RTEX							5	×		×	X	X	- ~	4			
Iditional instructions from Pace: Target VOCs roropylluersees, MTBE, Naphthalene, 1,24-1	hu FP4\$360 is-	t: BTEX, se, 1,3,5-		Collectors by	nitu	Hovez			Customer Re		peral Co				- ~	4			
Iditional instructions from Pace: Target VOCs peopyllierizere, MTBE, Naphthalene, 1,2,4-1 methylberizene, 1,2-Dicklargethane	hu FP4\$360 is-	: BTEX, se, 1,3,5-		Collected by Vanitage 2	nim	Honez				wineka/S	pecul Cos	Morre	Versible	Haeardi		Ly.	G Consessed Team (*CS)		
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