November 14, 2025

Mr. Matthew Thompson
Hydrogeologist Program Coordinator
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
1701 N. 4th St
Superior, WI 54880

Subject: **Fall 2025 Residential Well Groundwater Quality Analytical Results**
Round 59 Long Term Groundwater Monitoring Event
Spickler Landfill Site
Marshfield, Wisconsin
EPA ID# WID980902969

Dear Mr. Thompson:

On October 3, 2025, WSP completed the residential well sampling as part of the Round 59 Long-term Groundwater Monitoring Event at the Spickler Landfill, Spencer, Wisconsin. During the fall event, residential well RW-2551 was sampled, a duplicate sample was collected, and a trip blank was analyzed. Residential well RW-2550 could not be sampled. The owner of the property has moved out and the power has been turned off to the well. Access was not granted to sample residential well RW-2543.

The residential well samples were analyzed by Pace Analytical Services, Inc. (Pace) at their Green Bay, Wisconsin, Ormond Beach, Florida, and Mt. Juliet, Tennessee facilities, and CT Laboratories in Baraboo, Wisconsin. The data were reviewed against the Quality Assurance Project Plan (QAPP), Spickler Landfill Site, Marathon County, Wisconsin dated October 7, 2021, as updated, to confirm that the sampling and analysis meets the objectives of the QAPP.

The analytical results from Round 59 Residential Well Sampling are summarized on the attached Table 1 for Organic Compounds, Table 2 for Inorganic Compounds, and Table 3 for per-and polyfluoroalkyl substances (PFAS). The volatile organics analyzed using Methods 8260 and 8260 SIM (low-level vinyl chloride) were not detected above the respective limit of quantification (LOQ) in the sample collected from RW-2551 and its duplicate.

1,4-dioxane, analyzed using Method 8270 E was not detected above either the LOQ or the limit of detection (LOD) in the sample collected from RW-2551 and its duplicate.

Total iron was reported at a concentration above the PAL in the sample from RW-2551 and its duplicate sample. These detections are consistent with historical data.

PFAS compounds, analyzed using EPA Method 537.1, were not detected in the RW-2551 sample or its duplicate.

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The data have been validated by the laboratory and by our Senior Quality Assurance Chemist and have been found to be acceptable. Attached to this letter is the Data Quality Review, the Pace Report of Laboratory Analysis with validation qualifiers noted as appropriate, and the chain-of-custody record.

If you have any questions regarding this report, please contact Alison Levinson at (770) 973-2100.

Sincerely,
WSP USA Inc.

Alison Levinson, P.G.
License No. 1319-13
Senior Geologist

Carol D. Northern
Project Principal

CC: Mr. Dale Wonn, Weyerhaeuser Company
Mr. Stephen Nehring, WDNR
Ms. Nilia Green, EPA Region 5

Attachments:
Tables 1, 2, and 3
Data Quality Review
Pace Laboratory Analytical Report
Chain-of-custody

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TABLE 1
LONG-TERM GROUNDWATER MONITORING
ORGANIC COMPOUND SUMMARY
RESIDENTIAL MONITORING WELLS
SPICKLER LANDFILL

Parameter	UNITS	NR140 PAL	NR140 ES	SLLT-RW2551 (WDNR Pt. ID No. 802) LTGWM Rnd 59 10/03/2025	SLLT-RW2551 DUP (WDNR Pt. ID No. 802) LTGWM Rnd 59 10/03/2025
1,1-Dichloroethane	ug/L	85.0	850	<1.0	<1.0
1,2-Dichloroethane	ug/L	0.5	5	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	15	75	<1.0	<1.0
Benzene	ug/L	0.5	5	<1.0	<1.0
Chloroethane	ug/L	80	400	<5.0	<5.0
cis-1,2-Dichloroethene	ug/L	7	70	<1.0	<1.0
Methylene chloride	ug/L	0.5	5	<5.0	<5.0
Tetrachloroethene (PCE)	ug/L	0.5	5	<1.0	<1.0
Trichloroethene (TCE)	ug/L	0.5	5	<1.0	<1.0
Vinyl chloride (low-level)	ug/L	0.02	0.2	<0.10	<0.10
1,4-Dioxane*	ug/L	0.3	3	<0.3	<0.3

Notes:
Laboratory analyses performed by Pace Analytical Services and CT Labs
< = constituent not detected at or above the specified limit of quantitation (LOQ)
PAL- Preventive Action Limit
ES- Enforcement Standard
ug/L- micrograms per liter

Prepared By: CDN 11/12/2025
Checked By: 11/14/2025

TABLE 2
LONG-TERM GROUNDWATER MONITORING
INORGANIC COMPOUND SUMMARY
RESIDENTIAL MONITORING WELLS
SPICKLER LANDFILL

PARAMETER	UNITS	NR140 PAL	NR140 ES	SLLT-RW2551 (WDNR Pt. ID No. 802) LTGWM Rnd 59 10/03/2025	SLLT-RW2551 DUP (WDNR Pt. ID No. 802) LTGWM Rnd 59 10/03/2025
Arsenic, total	ug/L	1	10	<1.0	<1.0
Barium, total	ug/L	400	2000	**10.4**	**9.9**
Iron, total	ug/L	150	300	**138 J**	**96.4 J**
Lead, total	ug/L	1.5	15	**1.6**	**1.6**
Manganese, total	ug/L	60	300	**8.0**	**6.5**

Notes:

Prepared By: CDN 11/12/2025
Checked By: AGL 11/14/2025

Laboratory analyses peformed by Pace Analytical Services
J - Estimated concentration
< = constituent not detected at or above the specified limit of quantitation (LOQ)
ug/L- micrograms per liter
PAL- Preventive Action Limit
ES- Enforcement Standard

TABLE 3
LONG-TERM GROUNDWATER MONITORING
PFAS SUMMARY
RESIDENTIAL MONITORING WELLS
SPICKLER LANDFILL

PARAMETER	UNITS	Current Regulatory Guidance	SLLT-RW2551 (WDNR Pt. ID No. 802) LTGWM Rnd 59 10/03/2025	SLLT-RW2551 DUP (WDNR Pt. ID No. 802) LTGWM Rnd 59 10/03/2025
Hexafluoropropylene oxide-dimer Acid (HFPO-DA)	ng/L	10*	<1.8	<1.8
N-ethyl perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ng/L	NG	<1.8	<1.8
N-methyl perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ng/L	NG	<1.8	<1.8
Perfluorobutanesulfonic Acid (PFBS)	ng/L	600**	<1.8	<1.8
Perfluorodecanoic Acid (PFDA)	ng/L	NG	<1.8	<1.8
Perfluorododecanoic Acid (PFDoA)	ng/L	100**	<1.8	<1.8
Perfluoroheptanoic Acid (PFHpA)	ng/L	NG	<1.8	<1.8
Perfluorohexanesulfonic Acid (PFHxS)	ng/L	10*	<1.8	<1.8
Perfluorohexanoic Acid (PFHxA)	ng/L	990**	<1.8	<1.8
Perfluorononanoic Acid (PFNA)	ng/L	10*	<1.8	<1.8
Perfluorooctanesulfonic Acid (PFOS)	ng/L	4*	<1.8	<1.8
Perfluorooctanoic Acid (PFOA)	ng/L	4*	<1.8	<1.8
Perfluorotetradecanoic Acid (PFTeDA)	ng/L	2000**	<1.8	<1.8
Perfluorotridecanoic Acid (PFTrDA)	ng/L	NG	<1.8	<1.8
Perfluoroundecanoic Acid (PFUnA)	ng/L	NG	<1.8	<1.8
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ng/L	NG	<1.8	<1.8
9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid (9Cl-PF3ONS)	ng/L	NG	<1.8	<1.8
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	ng/L	NG	<1.8	<1.8

Notes:

Prepared By: CDN 11/12/2025

Checked By: AGL 11/14/2025

Laboratory analyses peformed by Pace Analytical Services

< = constituent not detected at or above the specified limit of quantitation (LOQ)

*EPA Maximum Contaminant Level (MCL), December 12, 2024

**EPA Regional Screening Level (RSL) for Tapwater (EPA Summary Table TR=1E-06, HQ=0.1; page 8, November 2024).
Note that the table values were converted from ug/L to ng/L.

ng/L- nanograms per liter

NG- No guidance

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MEMORANDUM

TO: Alison Levinson, WSP USA
FROM: Kathy J. Gunderson, Senior Consultant, Chemical Scientist
DATE: November 10, 2025
SUBJECT: Data Quality Review of Residential Samples Collected October 2025
PROJECT: Site Monitoring, Spickler Landfill, Marathon County, Wisconsin
PROJECT #: US0041460.2690

1.0 Introduction

This memorandum presents the Stage 2B (USEPA 2009a) validation of the analytical data from samples collected near the Spickler Landfill. One residential water sample, one field duplicate, and one trip blank were collected October 3, 2025. The analyses were performed by Pace Analytical Services (Pace), in their Green Bay, Wisconsin, Ormond Beach, Florida, and Mt. Juliet, Tennessee laboratories. Pace subcontracted the low-level vinyl chloride analyses to CT Laboratories of Baraboo, Wisconsin. The samples were analyzed for site-specific volatile organic compounds (VOCs), 1,4-dioxane (1,4-D), perfluoroalkyl substances (PFAS), and metals following the methods referenced in Table 1.

The quality assurance criteria used to assess the data are from the *Quality Assurance Project Plan Spickler Landfill Site Marathon County,* (EarthCon 2021) and the *Quality Assurance Project Plan Addendum Revision Number 2.0* (WSP 2025), the *National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA 2020), the *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA 2020a), the *Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537* (USEPA 2018), the analytical methods, or the professional judgment of the validation chemist. The following laboratory deliverables were evaluated during the review process:

- Chain-of-custody (COC) documentation to assess holding times and verify report completeness
- Laboratory quality control (QC) sample results, including method blanks, surrogate spikes, internal standards, laboratory control sample/laboratory control sample duplicates (LCS/LCSDs), matrix spike/matrix spike duplicates (MS/MSDs), and laboratory duplicates
- Instrument calibration and performance checks
- Field QC samples to assess trip blank cleanliness and field duplicate precision

An assessment of the data quality is presented in Section 3.0. The QAPP data validation checklists, field duplicate precision table, and a summary of qualified data are at the end of this memorandum.

2.0 Data Validation Findings

2.1 Custody, Preservation, and Completeness – Acceptable

Sample custody was maintained from sample collection to receipt at the laboratory. The samples were received intact and were properly preserved. The report is complete and contains results for the samples and tests requested on the COC form.

2.2 Volatile Organic Analyses

The field samples and trip blank were analyzed for the site-specific VOCs benzene, chloroethane, 1.4-dichlorobenzene, 1,1-dichloroethane, 1,2-dichloroethane, cis-1,2-dichloroethene, methylene chloride, tetrachloroethene, trichloroethene, and vinyl chloride by Method 8260 at Pace's Green Bay, Wisconsin facility. The field samples and trip blank were analyzed for low-level vinyl chloride via Method 8260C by CT Laboratories.

2.2.1 Holding Times – Acceptable

The samples were analyzed within the QAPP holding time of 14 days from collection for preserved water samples.

2.2.2 Instrument Tuning and Mass Calibration – Acceptable

The mass spectrometer tuning compound bromofluorobenzene was analyzed at the required frequency by both laboratories. The relative abundance values are within Functional Guidelines criteria.

2.2.3 Initial Calibration – Acceptable

Initial calibrations were analyzed at the required frequency by both laboratories. The QAPP criteria of relative standard deviation (RSD) values less than or equal to 15 percent or correlation coefficient greater than 0.99 or coefficient of determination greater than 0.99 were met. The relative response factors are greater than the QAPP criterion of 0.010.

2.2.4 Calibration Verification – Acceptable with Discussion

Calibration verification standards were analyzed at the required frequency by both laboratories. The QAPP criteria of percent difference values less than or equal to 20 and relative response factors greater than 0.010 were met, with one exception.

- The chloroethane percent difference value is above the QAPP criterion at 24.7 percent in the calibration verification standard associated with the samples. Data qualifiers are not required because the bias is high and chloroethane was not detected in the samples.

2.2.5 Blank Analyses – Acceptable

2.2.5.1 Method Blanks

Method blanks were analyzed at the required frequency by both laboratories. Target VOCs were not detected above the limits of detection (LOD, aka, method detection limits).

2.2.5.2 Trip Blanks

One trip blank is associated with the samples and was analyzed by both laboratories. Target VOCs were not detected above the LOD in the trip blank.

2.2.6 Surrogate Analyses – Acceptable

Surrogate compounds were added to the samples, blanks, and QC samples as required. The recovery values are within the laboratory control limits of 70 to 130 percent for both laboratories.

2.2.7 Laboratory Control Sample Analyses – Acceptable

Pace analyzed LCSs and CT Laboratories analyzed LCS/LCSDs at the required frequency. The recovery and relative percent difference (RPD) values are within the laboratory control limits.

2.2.8 Matrix Spike/Matrix Spike Duplicate Analyses – Acceptable with Discussion

Except as noted below, MS/MSDs were reported as required. The recovery and RPD values are within the laboratory control limits.

- MS/MSD results were not reported by CT Laboratories for the low-level vinyl chloride analyses. Data qualifiers are not required due to the lack of laboratory QC results.

2.2.9 Internal Standard Evaluation – Acceptable

Internal standards were added to the samples, blanks, and QC samples as required. The recovery and retention time criteria of Functional Guidelines were met.

2.2.10 Laboratory Reporting Limits – Acceptable with Discussion

The VOCs and target reporting limits (RLs) listed in Table 2 of the QAPP were reported, with one exception.

- The low-level vinyl chloride RL listed in the QAPP is 0.06 μg/L. CT Laboratories limit of quantitation (LOQ, aka RL) is 0.10 μg/L. The laboratory LOD is 0.019 μg/L, which is lower than the preventive action limit for the project of 0.02 μg/L.

2.2.11 Field Duplicates – Acceptable

Sample SLLT-RWDUP01-5999 is a field duplicate of sample SLLT-RW-2551-5901. The QAPP criterion for field duplicate precision is RPD values less than or equal to 30. RPD values could not be calculated because VOCs were not detected in either sample.

2.2.12 Overall Assessment of Data Usability

The usability of the data is based on the EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

2.3 Semivolatile Organic Analyses

The sample and the field duplicate were analyzed for 1,4-dioxane (1,4-D) by Method 8270E selected ion monitoring (SIM) by Pace in Mt. Juliet, Tennessee.

2.3.1 Holding Times – Acceptable

The samples were extracted within the Method holding time of seven days from collection. The sample extracts were analyzed within the Method holding time of 40 days from extraction.

2.3.2 Instrument Tuning and Mass Calibration – Acceptable

The tuning compound decafluorotriphenylphosphine was analyzed at the required frequency and the relative abundance values are within Functional Guidelines criteria.

2.3.3 Initial Calibration – Acceptable

Initial calibrations were analyzed at the required frequency. The QAPP criteria of RSD values less than or equal to 15 percent and relative response factors greater than 0.010 were met.

2.3.4 Calibration Verification – Acceptable

Calibration verification standards were analyzed at the required frequency. The QAPP criteria of percent difference values less than or equal to 20 and relative response factors greater than 0.010 were met.

2.3.5 Blank Analyses – Acceptable

Method blanks were analyzed at the required frequency of one per extraction batch. 1,4-D was not detected in the method blanks above the LOD.

2.3.6 Surrogate Analyses – Acceptable

Surrogate compounds were added to the samples, blanks, and QC samples as required. The recovery values are within the laboratory control limits.

2.3.7 Laboratory Control Sample Analyses – Acceptable

An LCS/LCSD was analyzed at the required frequency of one per extraction batch. The recovery and RPD values are within the laboratory control limits.

2.3.8 Matrix Spike/Matrix Spike Duplicate Analyses – Acceptable with Discussion

Except as noted below, MS/MSDs were analyzed at the required frequency of one per extraction batch. The recovery and RPD values are within the laboratory control limits.

- MS/MSD results were not reported for 1,4-D. Data qualifiers are not required due to the lack of laboratory QC results.

2.3.9 Isotope Dilution and Internal Standard Evaluation – Acceptable

Isotope dilution standards and internal standards were added to the samples, blanks, and QC samples. The internal standard recovery and retention time criteria of Functional Guidelines were met. The laboratory criteria for isotope dilution standards were met.

2.3.10 Laboratory Reporting Limits – Acceptable with Discussion

The 1,4-D reporting limit listed in QAPP Table 2 was not met as discussed below.

- The 1,4-D RL listed in the QAPP is 0.4 μg/L. The Pace LOQ is 1.00 μg/L. The laboratory LOD is 0.300 μg/L, which is equal to the preventive action limit for the project of 0.3 μg/L.

2.3.11 Field Duplicates – Acceptable

Sample SLLT-RWDUP01-5999 is a field duplicate of sample SLLT-RW-2551-5901. The QAPP criterion for field duplicate precision is RPD values less than or equal to 30. Field duplicate RPD values were not calculated because 1,4-D was not detected in either sample.

2.3.12 Overall Assessment of Data Usability

The usability of the data is based on the EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

2.4 Metals Analyses

The sample and field duplicate were analyzed for total arsenic, barium, iron, manganese, and lead by Method 3010A/6020B.

2.4.1 Holding Times – Acceptable

The samples were analyzed within the QAPP holding time of 180 days from collection.

2.4.2 Initial Calibration – Acceptable with Qualification

Initial calibrations and detection limit standards were analyzed daily prior to sample analysis. With one exception, the QAPP linearity criteria of correlation coefficient greater than or equal to 0.998 and detection limit standard recovery criterion of 80 to 120 percent were met.

- The iron correlation coefficient is 0.9907 in the calibration curve associated with the samples. The positive iron results of the samples are qualified as estimated (J) as shown below and in Table 3

Sample ID	Analyte	Qualifier	Quality Control Exceedance
SLLT-RW-2551-5901	Total iron	J	Calibration curve linearity not met
SLLT-RWDUP01-5999	Total iron	J	Calibration curve linearity not met

2.4.3 Calibration Verifications – Acceptable

Initial calibration verification standards and continuing calibration verification standards were analyzed at the required frequency. The QAPP criteria of 90 to 110 percent recovery was met.

2.4.4 Blank Analyses – Acceptable

2.4.4.1 Calibration Blanks

Initial and continuing calibration blanks were analyzed at the required frequency. Target metals were not detected above the MDLs in the calibration blanks.

2.4.4.2 Method Blanks

Method blanks were analyzed at the required frequency of one per digestion batch. Target metals were not detected above the MDLs in the method blanks.

2.4.5 ICP Interference Check – Acceptable

ICP interference check samples were analyzed prior to sample analysis. The recovery values of spiked metals are within the QAPP criteria of 80 to 120 percent and the non-spiked metals have absolute values less than one half the reporting limits.

2.4.6 Laboratory Control Sample Analyses – Acceptable

LCSs were analyzed at the required frequency of one per digestion batch. The recovery values are within the laboratory control limits of 80 to 120 percent.

2.4.7 Spiked Sample Analyses – Acceptable

Matrix spike and post digestion spike analyses were performed at the required frequency of one per 20 samples. The recovery values are within the laboratory control limits.

2.4.8 Laboratory Duplicate Analyses – Acceptable

Duplicate sample analyses, in the form of MSDs, were performed at the required frequency of one per 20 samples. The RPD values are within the laboratory control limits.

2.4.9 ICP Serial Dilution Analysis – Acceptable

Serial dilutions were performed at a frequency of one per batch. The Functional Guidelines criteria of percent difference values less than 10 percent for results greater than 50 times the MDL were met.

2.4.10 Internal Standard Evaluation – Acceptable

Internal standards were added to the samples, blanks, and QC samples. The recovery criterion of Functional Guidelines (60 to 125 percent) was met.

2.4.11 Laboratory Reporting Limits – Acceptable

The project metals were reported and the detection limits listed in Table 2 of the QAPP were met.

2.4.12 Field Duplicates – Acceptable with Qualification

Sample SLLT-RWDUP01-5999 is a field duplicate of sample SLLT-RW-2551-5901. The QAPP precision criterion for field duplicates is RPD values less than or equal to 30. With one exception, field duplicate precision is acceptable as shown by the low RPD values listed in Table 2.

- The total iron field duplicate RPD value is above the QAPP criteria at 35. The positive iron results of both samples are qualified as estimated (J) as shown below and in Table 3

Sample ID	Analyte	Qualifier	Quality Control Exceedance
SLLT-RW-2551-5901	Total iron	J	Field duplicate RPD > 30
SLLT-RWDUP01-5999	Total iron	J	Field duplicate RPD > 30

2.4.13 Overall Assessment of Data Usability

The usability of the data is based on the EPA guidance documents noted previously. Upon consideration of the information presented here, the data as qualified are acceptable for their intended use.

2.5 Perfluoroalkyl Substances Analyses

The sample and the field duplicate were analyzed for perfluoroalkyl substances (PFAS) via Method 537.1 by Pace in Ormond Beach, Florida.

2.5.1 Holding Times – Acceptable

The samples were extracted within the QAPP time of 28 days from collection. The sample extracts were analyzed within the QAPP holding time of 28 days from extraction.

2.5.2 Initial Calibration – Acceptable

Initial calibrations were analyzed at the required frequency. The QAPP criteria of 50 to 150 percent recovery for low level standards and 70 to 130 percent for standards above the reporting limits were met.

2.5.3 Calibration Verification – Acceptable

Initial calibration verification and continuing calibration verification standards were analyzed at the Method frequency. The QAPP criteria of 50 to 150 percent recovery for low level standards and 70 to 130 percent for standards above the reporting limits were met.

2.5.4 Blank Analyses – Acceptable

2.5.4.1 Method Blanks

Method blanks were analyzed at the required frequency of one per extraction batch. PFAS was not detected above the MDLs in the method blank.

2.5.5 Surrogate Analyses – Acceptable

Surrogate compounds were added to the samples, blanks, and QC samples as required. The recovery values are within the laboratory control limits of 70 to 130 percent.

2.5.6 Laboratory Control Sample Analyses – Acceptable

LCSs were analyzed at the Method frequency of one LCS and one low level LCS per extraction batch. The recovery values are within the Method criteria of 70 to 130 percent and 50 to 150 percent for the low level LCS.

2.5.7 Matrix Spike/Matrix Spike Duplicate Analyses – Acceptable

MS/MSD were analyzed at the required frequency of one per 20 samples. The recovery and RPD values are within the laboratory control limit of 70 to 130 percent recovery and RPD values less than 30.

2.5.8 Internal Standard Evaluation – Acceptable

Internal standards were added to the samples, blanks, and QC samples as required. The internal standard area recovery values are within the Method criteria of 50 to 200 percent.

2.5.9 Laboratory Reporting Limits – Acceptable

The PFAS compounds listed in Table 4 of the QAPP were reported and the target detection limits were met.

2.5.10 Field Duplicates – Acceptable

Sample SLLT-RWDUP01-5999 is a field duplicate of sample SLLT-RW-2551-5901. The QAPP criterion for field duplicate precision is RPD values less than or equal to 30. RPD values could not be calculated because PFAS were not detected in either sample.

2.5.11 Overall Assessment of Data Usability

The usability of the data is based on the EPA guidance documents noted previously. Upon consideration of the information presented here, the data are acceptable for their intended use.

3.0 Assessment of Data Quality Objectives

3.1 Accuracy

Accuracy is the degree of agreement between a measurement and the accepted reference or true value. The level of accuracy is determined by examination of surrogates, internal standards, isotope dilution standards, MS/MSDs, LCSs, method blanks, field blanks, and trip blanks, as appropriate. The surrogate, MS/MSD, and LCS recovery values were compared to the laboratory QC limits. Method blanks, field blanks, and trip blanks are analyzed to identify compounds that could be introduced during the sampling, laboratory preparation, or analysis phase (i.e., laboratory contaminants) and lead to inaccurate results.

The accuracy of the VOC data is good. The surrogate, internal standard, LCS, and project MS/MSD recovery values are within the laboratory QC limits and the method blanks and trip blank are free of target analytes.

The accuracy of the SVOC 1,4-D data is good. The surrogate, LCS, internal standard, and isotope dilution recovery values are within the laboratory control limits abd 1,4-D was not detected in the method blanks.

The accuracy of the metals data is very good. The internal standard, LCS, and MS/MSD recovery values are within the laboratory QC limits and the method blank is free of target metals.

The accuracy of the PFAS data is good. The surrogate, internal standard and LCS recovery values are within the laboratory QC limits and PFAS were not detected in the method blank

3.2 Precision

Precision is a measure of the mutual agreement among individual measurements of the same property, under prescribed similar conditions. Precision is determined through analysis of MS/MSDs, sample duplicates, and field duplicate samples. Duplicate samples are evaluated for precision in terms of RPD. RPD is defined as the difference between the duplicate results divided by the mean and expressed as a percent.

The precision of the VOC and the 1,4-D data is very good. The field duplicate, LCS/LCSD, and MS/MSD RPD values are acceptable.

The precision of the total metals data is acceptable. The RPD values of the MS/MSD and, with one exception, the field duplicate are acceptable. The total iron results of the sample and field duplicate are imprecise as indicated by the high field duplicate RPD value.

The precision of the PFAS data is very good. The RPD values of the MS/MSD are within the laboratory QC limits and the field duplicate RPD values are acceptable.

3.3 Representativeness

Representativeness is the extent to which the data reflect the actual contaminant levels present in the samples. Representativeness is assessed through method and field blanks, and proper preservation and handling. Method and field blank analyses allow for the detection of artifacts that may be reported as false positive results. Proper sample preservation and handling ensure that sample results reflect the actual sample concentrations.

The data are assumed to be representative because the samples were properly preserved and handled and the samples were prepared and analyzed within the required holding times. The method blanks and trip blank are free of target compounds.

3.4 Comparability

Comparability is a measure of how easily the data set can be compared and combined with other data sets. The data are assumed to be comparable as standard EPA methods were used to analyze the samples, the method QC criteria were generally met, and routine detection limits were reported.

3.5 Completeness

Completeness is expressed as the ratio of valid results to the amount of data expected to be obtained under normal conditions. Completeness is determined by assessing the number of samples for which valid results were obtained versus the number of samples that were submitted to the laboratory for analysis. Valid results are results that are determined to be usable during the data validation review process.

The completeness of the Spickler Landfill residential data collected in October 2025 is 100 percent, which meets the QAPP completeness goal of greater than 95 percent.

4.0 Data Qualifier Definitions

4.1 Inorganic Data Qualifiers

The following data validation qualifiers were used in the review of this data set. These qualifiers are from the *National Functional Guidelines for Inorganic Superfund Methods Data Review*.

U The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample

4.2 Organic Data Qualifiers

The following data validation qualifiers were used in the review of the organic analyses in this data set. These qualifiers are from the *National Functional Guidelines for Organic Superfund Methods Data Review*.

U The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

5.0 References

EarthCon 2021. Quality Assurance Project Plan Spickler Landfill Site Marathon County, Wisconsin, Revision 0. Prepared for Settling Defendants Seattle, Washington. Prepared by EarthCon Consultants, Inc. Marietta, Georgia. October 7, 2021.

USEPA. 1996. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846) Third Edition, Updates I, II, IIA, IIB, and III. United States Environmental Protection Agency. Office of Solid Waste. December 1996.

USEPA. 2009. Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction, and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) Office of Research and Development U.S. Environmental Protection Agency. EPA/600/R-08/092. September 2009.

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USEPA. 2020. National Functional Guidelines for Inorganic Superfund Methods Data Review. United States Environmental Protection Agency Office of Superfund Remediation and Technology innovation (OSTRI). EPA 542-R-20-006. November 2020.

USEPA. 2020a. National Functional Guidelines for Organic Superfund Methods Data Review. U.S. Environmental Protection Agency Office of Superfund Remediation and Technology innovation (OSTRI). EPA 540-R-20-005. November 2020.

WSP. 2025. Quality Assurance Project Plan Addendum Spickler Landfill Site Marathon County, Wisconsin, Revision Number 2.0. Prepared for Settling Defendants Seattle, Washington. Prepared by WSP USA Inc. Marietta, Georgia. April 22, 2025.

Table 1 – Sample Data Reviewed

Field ID	Laboratory ID	VOCs	VC	1,4-D	Total Metals	PFAS
SLLT-RW-2551-5901	40302763001	X	X	X	X	X
SLLT-RWDUP01-5999	40302763002	X	X	X	X	X
SLLT-RW-TB01-5901	40302763003	X	X			

VOCs – Volatile Organic Compounds by Method 8260 (USEPA 1996)
VC – Vinyl chloride by Method 8260C (USEPA 1996)
1,4-D – 1,4-dioxane by Method 3510C/8270E SIM (USEPA 1996)
Total Metals – arsenic, barium, iron, lead, and manganese by Method 3010A/6020B (USEPA 1996)
PFAS – Perfluoroalkyl substances by Method 537.1 (USEPA 2009)

Table 2 – Field Duplicate Precision

		SLLT-RW-2550-5901	SLLT-RWDUP01-5999	
Analyte	Units	Results	Results	RPD
Barium, total	ug/L	10.4	9.9	4.9
Iron, total	ug/L	138	96.4	**35**
Lead, total	ug/L	1.6	1.6	0
Manganese, total	ug/L	8.0	6.5	21

RPD – Relative percent difference
Bold RPD values exceed the project criteria of 30

Table 3 – Summary of Qualified Data

Sample ID	Analyte	Qualifier	Quality Control Exceedance
SLLT-RW-2551-5901	Total iron	J	Calibration curve linearity not met
SLLT-RWDUP01-5999	Total iron	J	Calibration curve linearity not met
SLLT-RW-2551-5901	Total iron	J	Field duplicate RPD > 30
SLLT-RWDUP01-5999	Total iron	J	Field duplicate RPD > 30

Text and tables reviewed by: CLC 11/10/25

STAGE 2B
ORGANIC ANALYSIS VALIDATION CHECKLIST

Client:	WSP Project Number: US0041460.2690
Site/Project Name: Spickler Landfill Residential	Laboratory/Location: Pace & CT Laboratories
Sample Collection Dates: April 2025	Function Guidelines Revision: 2020
Method: 8260, 8260C, 3510C/8270E SIM	QAPP/SAP: 2021
Validated by/date: KJG 11/10/25	Reviewed by/date: CLC 11/10/25

Use the following checklist to document the Stage 2B validation of the above-mentioned data. Identify the criteria used, deviations from project documents, and qualified results. Attach support documentation and additional sheets as needed.

Parameter	Criteria	Acceptable	Unacceptable	Comment
Custody Maintained	--	X		
Condition upon Receipt	--	X		
VOA Vial Headspace	--	X		
Sample Preservation - Temperature	QAPP	X		
Sample Preservation – Chemical	QAPP	X		
Holding Times – Preparation	QAPP	X		
Holding Times - Analysis	QAPP	X		
Method Blank Results	QAPP	X		
Trip/Field Blank Results	QAPP	X		
Surrogate Recovery	QAPP	X		
LCS	QAPP	X		
MS/MSD – Recovery	QAPP	X		
MS/MSD - RPD	QAPP	X		
Field Duplicate	QAPP	X		
Detection Limit/Sensitivity	QAPP	X		See Section 2.2.10 & 2.3.10
Mass Tuning	QAPP	X		
GC Instrument Performance – Resolution & DDT/Endrin Breakdown	QAPP	X		
Initial Calibrations	QAPP	X		
Continuing Calibrations	QAPP	X		See Section 2.2.4
Internal Standards	QAPP	X		
Retention Time Shifts	QAPP	X		
Multiple Dilutions/Analyses	QAPP	X		
Analytical Sequence	QAPP	X		
GC Column Agreement	NA	X		
Percent Solids	NA	X		
Deliverables Complete	--	X		
Other:				

Additional Comments:_

Results are useable for their intended purpose: ☐ With Qualification ☒ Without Qualification

STAGE 2B
ORGANIC ANALYSIS VALIDATION CHECKLIST

Client:	WSP Project Number: US0041460.2690
Site/Project Name: Spickler Landfill Residential	Laboratory/Location: Pace Ormond Beach, Fl
Sample Collection Dates: April 2025	Function Guidelines Revision: 2018
Method: PFAS 537.1	QAPP/SAP: 2021
Validated by/date: KJG 11/10/25	Reviewed by/date: CLC 11/10/25

Use the following checklist to document the Stage 2B validation of the above-mentioned data. Identify the criteria used, deviations from project documents, and qualified results. Attach support documentation and additional sheets as needed.

Parameter	Criteria	Acceptable	Unacceptable	Comment
Custody Maintained	--	X		
Condition upon Receipt	--	X		
VOA Vial Headspace	--	X		
Sample Preservation - Temperature	QAPP	X		
Sample Preservation - Chemical	QAPP	X		
Holding Times – Preparation	QAPP	X		
Holding Times - Analysis	QAPP	X		
Method Blank Results	QAPP	X		
Trip/Field Blank Results	QAPP	X		
Surrogate Recovery	QAPP	X		
LCS	QAPP	X		
MS/MSD – Recovery	QAPP	X		
MS/MSD - RPD	QAPP	X		
Field Duplicate	QAPP	X		
Detection Limit/Sensitivity	QAPP	X		
Mass Tuning	QAPP	X		
Initial Calibrations	QAPP	X		
Continuing Calibrations	QAPP	X		
Internal Standards	QAPP	X		
Multiple Dilutions/Analyses	QAPP	X		
Percent Solids	NA			
Deliverables Complete	QAPP	X		
Other:				

Additional Comments:_____

Results are useable for their intended purpose: ☐ With Qualification ☒ Without Qualification

STAGE 2B
INORGANIC ANALYSIS VALIDATION CHECKLIST

Client:	ECC Project Number: US0041460.2690
Site/Project Name: Speckler Landfill Residential	Laboratory/Location: Pace Green Bay, WI
Sample Collection Dates: April 2025	Function Guidelines Revision: 2020
Method: Total metals 3010A/6020B	QAPP/SAP: 2021
Validated by/date: KJG 11/10/25	Reviewed by/date: CLC 11/10/25

Use the following checklist to document the Stage 2B validation of the above-mentioned data. Identify the criteria used, deviations from project documents, and qualified results. Attach support documentation and additional sheets as needed.

Parameter	Criteria	Acceptable	Unacceptable	Comment
Custody Maintained	--	X		
Condition upon Receipt	--	X		
Sample Preservation - Temperature	QAPP	X		
Sample Preservation - Chemical	QAPP	X		
Holding Times – Preparation	QAPP	X		
Holding Times - Analysis	QAPP	X		
Method Blank Results	QAPP	X		
Field Blank Results	QAPP	X		
LCS	QAPP	X		
MS/MSD – Recovery	QAPP	X		
Duplicate/MSD - RPD	QAPP	X		
PDS – Recovery	QAPP	X		
Serial Dilution	QAPP	X		
Field Duplicate	QAPP	X		See Section 2.4.12
Detection Limit/Sensitivity	QAPP	X		
Initial Calibrations	QAPP	X		See Section 2.4.2
Continuing Calibrations	QAPP	X		
Initial & Continuing Blanks	QAPP	X		
Low Level Standard	QAPP	X		
Internal Standards	QAPP	X		
Multiple Dilutions/Analyses	QAPP	X		
Analytical Sequence	QAPP	X		
Total ≥ Dissolved	NA			
Percent Solids	--	X		
Deliverables Complete	--	X		
Other:				

Additional Comments:_____

_____

_____

_____

Results are useable for their intended purpose: ☒ With Qualification ☐ Without Qualification

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 04, 2025

Alison Levinson
WSP USA
1880 West Oak Parkway, Bldg100
Suite 106
Marietta, GA 30062

RE: Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Dear Alison Levinson:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Green Bay
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Hayden Putt

Hayden Putt
hayden.putt@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kathy Gunderson, WSP USA
Carole Northern, EARTHCON SITE SERVICES, INC.
Marie Weber-Goeke, WSP USA
Sofie Weber-Snapp, WSP USA

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
California Certification# 3096
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
DoD-ANAB #:ADE-3199
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Utah
Utah FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida DOH Certification # E87948
Illinois EPA Certification # 200050
ISO/IEC 17025 (A2LA) Certification # 6154.01
Kentucky UST DEP Certification # 123059
Louisiana DEQ Certification # 04168
Minnesota DOH Certification # 055-999-334
New York DOH Certification # 12064
North Dakota DEQ Certification # R-150
ISO/IEC 17025 (A2LA) Certification # 6154.01
South Carolina DES Certification # 83006001
Texas TCEQ Certification # T104704529
USDA APHIS Foreign Soil Permit # 525-24-3-36355
U.S. Fish & Wildlife Service Permit # 51774A
Virginia VELAP Certification # 460263
Wisconsin DATCP Certification # 444
Wisconsin DNR Certification # 405132750

Pace Analytical Services National
12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Pace Analytical Services National

Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Mold Certification #: LAB0152
Texas Certification #: T 104704245-17-14
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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SAMPLE SUMMARY

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40302763001	**Point No.802 SLLT-RW-2551-5901**	Water	10/03/25 10:07	10/06/25 08:50
40302763002	**SLLT-RWDUP01-5999**	Water	10/03/25 00:01	10/06/25 08:50
40302763003	**Point No.999 SLLT-RW-TB01-5901**	Water	10/03/25 08:00	10/06/25 08:50

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SAMPLE ANALYTE COUNT

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40302763001	**Point No.802 SLLT-RW-2551-5901**	EPA 6020B	KXS	5	PASI-G
		EPA 8270E by SIM	KB	2	PAN
		EPA 8260	NB	13	PASI-G
		EPA 537.1	TMM1	22	PASI-O
40302763002	**SLLT-RWDUP01-5999**	EPA 6020B	KXS	5	PASI-G
		EPA 8270E by SIM	KB	2	PAN
		EPA 8260	NB	13	PASI-G
		EPA 537.1	TMM1	22	PASI-O
40302763003	**Point No.999 SLLT-RW-TB01-5901**	EPA 8260	NB	13	PASI-G

PAN = Pace National - Mt. Juliet
PASI-G = Pace Analytical Services - Green Bay
PASI-O = Pace Analytical Services - Ormond Beach

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PROJECT NARRATIVE

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Method: **EPA 6020B**
Description: 6020B MET ICPMS
Client: WSP USA
Date: November 04, 2025

General Information:
2 samples were analyzed for EPA 6020B by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Method: **EPA 8270E by SIM**
Description: SVOA (GC/MS) 8270E-SIM
Client: WSP USA
Date: November 04, 2025

General Information:
2 samples were analyzed for EPA 8270E by SIM by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Method: **EPA 8260**
Description: 8260 MSV
Client: WSP USA
Date: November 04, 2025

General Information:
3 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 518184

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- BLANK (Lab ID: 2956322)
  - Chloroethane
- LCS (Lab ID: 2956323)
  - Chloroethane
- MS (Lab ID: 2956434)
  - Chloroethane
- MSD (Lab ID: 2956435)
  - Chloroethane
- Point No.802 SLLT-RW-2551-5901 (Lab ID: 40302763001)
  - Chloroethane
- Point No.999 SLLT-RW-TB01-5901 (Lab ID: 40302763003)
  - Chloroethane
- SLLT-RWDUP01-5999 (Lab ID: 40302763002)
  - Chloroethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Method: **EPA 8260**
Description: 8260 MSV
Client: WSP USA
Date: November 04, 2025

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Method: **EPA 537.1**
Description: 537.1 PFAS Compounds, Water
Client: WSP USA
Date: November 04, 2025

General Information:
2 samples were analyzed for EPA 537.1 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 537.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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(920)469-2436

ANALYTICAL RESULTS

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Sample: Point No.802 SLLT-RW-2551-5901 **Lab ID: 40302763001** Collected: 10/03/25 10:07 Received: 10/06/25 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic	**<0.28**	ug/L	1.0	0.28	1	10/09/25 07:11	10/20/25 20:13	7440-38-2	
Barium	**10.4**	ug/L	2.3	0.70	1	10/09/25 07:11	10/20/25 20:13	7440-39-3	
Iron	**138**	ug/L	100	58.0	1	10/09/25 07:11	10/20/25 20:13	7439-89-6	
Lead	**1.6**	ug/L	1.0	0.24	1	10/09/25 07:11	10/20/25 20:13	7439-92-1	
Manganese	**8.0**	ug/L	4.0	1.2	1	10/09/25 07:11	10/20/25 20:13	7439-96-5	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3510C Pace National - Mt. Juliet								
1,4-Dioxane (p-Dioxane)	**<0.300**	ug/L	1.00	0.300	1	10/08/25 16:45	10/10/25 15:39	123-91-1	
Surrogates									
Nitrobenzene-d5 (S)	75.7	%	10.0-120		1	10/08/25 16:45	10/10/25 15:39	4165-60-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		10/07/25 12:27	71-43-2	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		10/07/25 12:27	75-00-3	v1
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		10/07/25 12:27	106-46-7	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		10/07/25 12:27	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/07/25 12:27	107-06-2	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		10/07/25 12:27	156-59-2	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		10/07/25 12:27	75-09-2	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		10/07/25 12:27	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		10/07/25 12:27	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/07/25 12:27	75-01-4	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/07/25 12:27	2199-69-1	
4-Bromofluorobenzene (S)	94	%	70-130		1		10/07/25 12:27	460-00-4	
Toluene-d8 (S)	95	%	70-130		1		10/07/25 12:27	2037-26-5	
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
11Cl-PF3OUdS	**<0.00060**	ug/L	0.0018	0.00060	1	10/10/25 01:11	10/10/25 16:48	763051-92-9	
9Cl-PF3ONS	**<0.00049**	ug/L	0.0018	0.00049	1	10/10/25 01:11	10/10/25 16:48	756426-58-1	
ADONA	**<0.00067**	ug/L	0.0018	0.00067	1	10/10/25 01:11	10/10/25 16:48	919005-14-4	
HFPO-DA	**<0.00062**	ug/L	0.0018	0.00062	1	10/10/25 01:11	10/10/25 16:48	13252-13-6	
NEtFOSAA	**<0.00086**	ug/L	0.0018	0.00086	1	10/10/25 01:11	10/10/25 16:48	2991-50-6	
NMeFOSAA	**<0.00064**	ug/L	0.0018	0.00064	1	10/10/25 01:11	10/10/25 16:48	2355-31-9	
PFBS	**<0.00062**	ug/L	0.0018	0.00062	1	10/10/25 01:11	10/10/25 16:48	375-73-5	
PFDA	**<0.00090**	ug/L	0.0018	0.00090	1	10/10/25 01:11	10/10/25 16:48	335-76-2	
PFHxA	**<0.0012**	ug/L	0.0018	0.0012	1	10/10/25 01:11	10/10/25 16:48	307-24-4	
PFDoA	**<0.00059**	ug/L	0.0018	0.00059	1	10/10/25 01:11	10/10/25 16:48	307-55-1	
PFHpA	**<0.00093**	ug/L	0.0018	0.00093	1	10/10/25 01:11	10/10/25 16:48	375-85-9	
PFHxS	**<0.00068**	ug/L	0.0018	0.00068	1	10/10/25 01:11	10/10/25 16:48	355-46-4	
PFNA	**<0.00053**	ug/L	0.0018	0.00053	1	10/10/25 01:11	10/10/25 16:48	375-95-1	

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ANALYTICAL RESULTS

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Sample: Point No.802 SLLT-RW-2551-5901 **Lab ID: 40302763001** Collected: 10/03/25 10:07 Received: 10/06/25 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
PFOS	**<0.0011**	ug/L	0.0018	0.0011	1	10/10/25 01:11	10/10/25 16:48	1763-23-1	
PFOA	**<0.00081**	ug/L	0.0018	0.00081	1	10/10/25 01:11	10/10/25 16:48	335-67-1	
PFTeDA	**<0.00058**	ug/L	0.0018	0.00058	1	10/10/25 01:11	10/10/25 16:48	376-06-7	
PFTrDA	**<0.00061**	ug/L	0.0018	0.00061	1	10/10/25 01:11	10/10/25 16:48	72629-94-8	
PFUnA	**<0.00061**	ug/L	0.0018	0.00061	1	10/10/25 01:11	10/10/25 16:48	2058-94-8	
Surrogates									
13C2-PFDA (S)	99	%	70-130		1	10/10/25 01:11	10/10/25 16:48		
13C2-PFHxA (S)	88	%	70-130		1	10/10/25 01:11	10/10/25 16:48		
NEtFOSAA-d5 (S)	100	%	70-130		1	10/10/25 01:11	10/10/25 16:48		
HFPO-DAS (S)	92	%	70-130		1	10/10/25 01:11	10/10/25 16:48		

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ANALYTICAL RESULTS

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Sample: SLLT-RWDUP01-5999 **Lab ID: 40302763002** Collected: 10/03/25 00:01 Received: 10/06/25 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic	**<0.28**	ug/L	1.0	0.28	1	10/09/25 07:11	10/20/25 20:31	7440-38-2	
Barium	**9.9**	ug/L	2.3	0.70	1	10/09/25 07:11	10/20/25 20:31	7440-39-3	
Iron	**96.4J**	ug/L	100	58.0	1	10/09/25 07:11	10/20/25 20:31	7439-89-6	
Lead	**1.6**	ug/L	1.0	0.24	1	10/09/25 07:11	10/20/25 20:31	7439-92-1	
Manganese	**6.5**	ug/L	4.0	1.2	1	10/09/25 07:11	10/20/25 20:31	7439-96-5	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3510C Pace National - Mt. Juliet								
1,4-Dioxane (p-Dioxane)	**<0.300**	ug/L	1.00	0.300	1	10/08/25 16:45	10/10/25 15:58	123-91-1	
Surrogates									
Nitrobenzene-d5 (S)	76.8	%	10.0-120		1	10/08/25 16:45	10/10/25 15:58	4165-60-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		10/07/25 12:43	71-43-2	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		10/07/25 12:43	75-00-3	v1
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		10/07/25 12:43	106-46-7	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		10/07/25 12:43	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/07/25 12:43	107-06-2	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		10/07/25 12:43	156-59-2	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		10/07/25 12:43	75-09-2	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		10/07/25 12:43	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		10/07/25 12:43	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/07/25 12:43	75-01-4	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/07/25 12:43	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		1		10/07/25 12:43	460-00-4	
Toluene-d8 (S)	95	%	70-130		1		10/07/25 12:43	2037-26-5	
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
11Cl-PF3OUdS	**<0.00060**	ug/L	0.0018	0.00060	1	10/10/25 01:11	10/10/25 17:04	763051-92-9	
9Cl-PF3ONS	**<0.00049**	ug/L	0.0018	0.00049	1	10/10/25 01:11	10/10/25 17:04	756426-58-1	
ADONA	**<0.00067**	ug/L	0.0018	0.00067	1	10/10/25 01:11	10/10/25 17:04	919005-14-4	
HFPO-DA	**<0.00062**	ug/L	0.0018	0.00062	1	10/10/25 01:11	10/10/25 17:04	13252-13-6	
NEtFOSAA	**<0.00086**	ug/L	0.0018	0.00086	1	10/10/25 01:11	10/10/25 17:04	2991-50-6	
NMeFOSAA	**<0.00064**	ug/L	0.0018	0.00064	1	10/10/25 01:11	10/10/25 17:04	2355-31-9	
PFBS	**<0.00062**	ug/L	0.0018	0.00062	1	10/10/25 01:11	10/10/25 17:04	375-73-5	
PFDA	**<0.00090**	ug/L	0.0018	0.00090	1	10/10/25 01:11	10/10/25 17:04	335-76-2	
PFHxA	**<0.0012**	ug/L	0.0018	0.0012	1	10/10/25 01:11	10/10/25 17:04	307-24-4	
PFDoA	**<0.00059**	ug/L	0.0018	0.00059	1	10/10/25 01:11	10/10/25 17:04	307-55-1	
PFHpA	**<0.00093**	ug/L	0.0018	0.00093	1	10/10/25 01:11	10/10/25 17:04	375-85-9	
PFHxS	**<0.00068**	ug/L	0.0018	0.00068	1	10/10/25 01:11	10/10/25 17:04	355-46-4	
PFNA	**<0.00053**	ug/L	0.0018	0.00053	1	10/10/25 01:11	10/10/25 17:04	375-95-1	
PFOS	**<0.0011**	ug/L	0.0018	0.0011	1	10/10/25 01:11	10/10/25 17:04	1763-23-1	

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ANALYTICAL RESULTS

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Sample: SLLT-RWDUP01-5999 **Lab ID: 40302763002** Collected: 10/03/25 00:01 Received: 10/06/25 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
PFOA	**<0.00081**	ug/L	0.0018	0.00081	1	10/10/25 01:11	10/10/25 17:04	335-67-1	
PFTeDA	**<0.00058**	ug/L	0.0018	0.00058	1	10/10/25 01:11	10/10/25 17:04	376-06-7	
PFTrDA	**<0.00061**	ug/L	0.0018	0.00061	1	10/10/25 01:11	10/10/25 17:04	72629-94-8	
PFUnA	**<0.00061**	ug/L	0.0018	0.00061	1	10/10/25 01:11	10/10/25 17:04	2058-94-8	
Surrogates									
13C2-PFDA (S)	98	%	70-130		1	10/10/25 01:11	10/10/25 17:04		
13C2-PFHxA (S)	88	%	70-130		1	10/10/25 01:11	10/10/25 17:04		
NEtFOSAA-d5 (S)	104	%	70-130		1	10/10/25 01:11	10/10/25 17:04		
HFPO-DAS (S)	89	%	70-130		1	10/10/25 01:11	10/10/25 17:04		

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ANALYTICAL RESULTS

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Sample: Point No.999 SLLT-RW-TB01-5901 **Lab ID: 40302763003** Collected: 10/03/25 08:00 Received: 10/06/25 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		10/07/25 12:11	71-43-2	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		10/07/25 12:11	75-00-3	v1
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		10/07/25 12:11	106-46-7	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		10/07/25 12:11	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/07/25 12:11	107-06-2	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		10/07/25 12:11	156-59-2	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		10/07/25 12:11	75-09-2	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		10/07/25 12:11	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		10/07/25 12:11	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/07/25 12:11	75-01-4	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/07/25 12:11	2199-69-1	
4-Bromofluorobenzene (S)	93	%	70-130		1		10/07/25 12:11	460-00-4	
Toluene-d8 (S)	95	%	70-130		1		10/07/25 12:11	2037-26-5	

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QUALITY CONTROL DATA

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

QC Batch: 518388
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020B MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40302763001, 40302763002

METHOD BLANK: 2957357 Matrix: Water
Associated Lab Samples: 40302763001, 40302763002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.28	1.0	10/20/25 19:19	
Barium	ug/L	<0.70	2.3	10/20/25 19:19	
Iron	ug/L	<58.0	100	10/20/25 19:19	
Lead	ug/L	<0.24	1.0	10/20/25 19:19	
Manganese	ug/L	<1.2	4.0	10/20/25 19:19	

LABORATORY CONTROL SAMPLE: 2957358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	242	97	80-120	
Barium	ug/L	250	246	99	80-120	
Iron	ug/L	10000	10100	101	80-120	
Lead	ug/L	250	242	97	80-120	
Manganese	ug/L	250	251	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2957359 2957360

Parameter	Units	40302763001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	<0.28	250	250	246	253	99	101	75-125	2	20	
Barium	ug/L	10.4	250	250	264	270	101	104	75-125	2	20	
Iron	ug/L	138	10000	10000	10400	10500	103	103	75-125	0	20	
Lead	ug/L	1.6	250	250	256	260	102	103	75-125	2	20	
Manganese	ug/L	8.0	250	250	265	266	103	103	75-125	0	20	

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QUALITY CONTROL DATA

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

QC Batch: 2616072
QC Batch Method: 3510C
Analysis Method: EPA 8270E by SIM
Analysis Description: SVOA (GC/MS) 8270E-SIM
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 40302763001, 40302763002

METHOD BLANK: R4285656-3 Matrix: Water
Associated Lab Samples: 40302763001, 40302763002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.300	1.00	10/10/25 14:41	
Nitrobenzene-d5 (S)	%	80.4	10.0-120	10/10/25 14:41	

LABORATORY CONTROL SAMPLE & LCSD: R4285656-1 R4285656-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	50.0	66.7	64.4	133	129	73.0-146	3.51	20	
Nitrobenzene-d5 (S)	%				75.0	74.2	10.0-120			

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QUALITY CONTROL DATA

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

QC Batch: 518184
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40302763001, 40302763002, 40302763003

METHOD BLANK: 2956322 Matrix: Water
Associated Lab Samples: 40302763001, 40302763002, 40302763003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethane	ug/L	<0.30	1.0	10/07/25 10:36	
1,2-Dichloroethane	ug/L	<0.29	1.0	10/07/25 10:36	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	10/07/25 10:36	
Benzene	ug/L	<0.30	1.0	10/07/25 10:36	
Chloroethane	ug/L	<1.4	5.0	10/07/25 10:36	v1
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	10/07/25 10:36	
Methylene Chloride	ug/L	<0.32	5.0	10/07/25 10:36	
Tetrachloroethene	ug/L	<0.41	1.0	10/07/25 10:36	
Trichloroethene	ug/L	<0.32	1.0	10/07/25 10:36	
Vinyl chloride	ug/L	<0.17	1.0	10/07/25 10:36	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	10/07/25 10:36	
4-Bromofluorobenzene (S)	%	95	70-130	10/07/25 10:36	
Toluene-d8 (S)	%	97	70-130	10/07/25 10:36	

LABORATORY CONTROL SAMPLE: 2956323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	50	60.9	122	70-130	
1,2-Dichloroethane	ug/L	50	51.6	103	70-130	
1,4-Dichlorobenzene	ug/L	50	51.0	102	70-130	
Benzene	ug/L	50	56.4	113	70-130	
Chloroethane	ug/L	50	63.9	128	61-145	v1
cis-1,2-Dichloroethene	ug/L	50	54.8	110	70-130	
Methylene Chloride	ug/L	50	62.1	124	70-130	
Tetrachloroethene	ug/L	50	49.5	99	70-130	
Trichloroethene	ug/L	50	55.8	112	70-130	
Vinyl chloride	ug/L	50	59.0	118	37-145	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2956434 2956435

Parameter	Units	40302763001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	<0.30	50	50	62.7	63.0	125	126	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	53.4	55.0	107	110	70-131	3	20	

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QUALITY CONTROL DATA

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2956434 2956435

Parameter	Units	40302763001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	<0.89	50	50	54.0	54.1	108	108	70-130	0	20	
Benzene	ug/L	<0.30	50	50	58.5	59.3	117	119	70-130	1	20	
Chloroethane	ug/L	<1.4	50	50	66.3	65.6	133	131	59-148	1	20	v1
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	56.7	57.4	113	115	70-130	1	20	
Methylene Chloride	ug/L	<0.32	50	50	64.7	64.7	129	129	70-133	0	20	
Tetrachloroethene	ug/L	<0.41	50	50	51.5	51.7	103	103	70-130	0	20	
Trichloroethene	ug/L	<0.32	50	50	58.0	58.5	116	117	70-130	1	20	
Vinyl chloride	ug/L	<0.17	50	50	61.0	60.2	122	120	37-150	1	20	
1,2-Dichlorobenzene-d4 (S)	%						98	97	70-130			
4-Bromofluorobenzene (S)	%						95	95	70-130			
Toluene-d8 (S)	%						99	97	70-130			

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

QC Batch: 1135693
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 40302763001, 40302763002

METHOD BLANK: 6225250 Matrix: Water
Associated Lab Samples: 40302763001, 40302763002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ug/L	<0.00066	0.0020	10/10/25 14:24	
9Cl-PF3ONS	ug/L	<0.00054	0.0020	10/10/25 14:24	
ADONA	ug/L	<0.00074	0.0020	10/10/25 14:24	
HFPO-DA	ug/L	<0.00068	0.0020	10/10/25 14:24	
NEtFOSAA	ug/L	<0.00095	0.0020	10/10/25 14:24	
NMeFOSAA	ug/L	<0.00071	0.0020	10/10/25 14:24	
PFBS	ug/L	<0.00068	0.0020	10/10/25 14:24	
PFDA	ug/L	<0.00099	0.0020	10/10/25 14:24	
PFDoA	ug/L	<0.00065	0.0020	10/10/25 14:24	
PFHpA	ug/L	<0.0010	0.0020	10/10/25 14:24	
PFHxA	ug/L	<0.0013	0.0020	10/10/25 14:24	
PFHxS	ug/L	<0.00075	0.0020	10/10/25 14:24	
PFNA	ug/L	<0.00059	0.0020	10/10/25 14:24	
PFOA	ug/L	<0.00089	0.0020	10/10/25 14:24	
PFOS	ug/L	<0.0012	0.0020	10/10/25 14:24	
PFTeDA	ug/L	<0.00064	0.0020	10/10/25 14:24	
PFTrDA	ug/L	<0.00067	0.0020	10/10/25 14:24	
PFUnA	ug/L	<0.00067	0.0020	10/10/25 14:24	
13C2-PFDA (S)	%	98	70-130	10/10/25 14:24	
13C2-PFHxA (S)	%	93	70-130	10/10/25 14:24	
HFPO-DAS (S)	%	92	70-130	10/10/25 14:24	
NEtFOSAA-d5 (S)	%	90	70-130	10/10/25 14:24	

LABORATORY CONTROL SAMPLE: 6225251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ug/L	0.15	0.15	99	70-130	
9Cl-PF3ONS	ug/L	0.15	0.15	98	70-130	
ADONA	ug/L	0.15	0.14	92	70-130	
HFPO-DA	ug/L	0.16	0.14	90	70-130	
NEtFOSAA	ug/L	0.16	0.14	89	70-130	
NMeFOSAA	ug/L	0.16	0.14	88	70-130	
PFBS	ug/L	0.14	0.12	87	70-130	
PFDA	ug/L	0.16	0.15	93	70-130	
PFDoA	ug/L	0.16	0.14	90	70-130	
PFHpA	ug/L	0.16	0.14	90	70-130	
PFHxA	ug/L	0.16	0.14	89	70-130	
PFHxS	ug/L	0.15	0.13	92	70-130	
PFNA	ug/L	0.16	0.15	91	70-130	

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(920)469-2436

QUALITY CONTROL DATA

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

LABORATORY CONTROL SAMPLE: 6225251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFOA	ug/L	0.16	0.15	93	70-130	
PFOS	ug/L	0.15	0.14	93	70-130	
PFTeDA	ug/L	0.16	0.15	96	70-130	
PFTrDA	ug/L	0.16	0.15	92	70-130	
PFUnA	ug/L	0.16	0.14	90	70-130	
13C2-PFDA (S)	%			92	70-130	
13C2-PFHxA (S)	%			88	70-130	
HFPO-DAS (S)	%			90	70-130	
NEtFOSAA-d5 (S)	%			82	70-130	

LABORATORY CONTROL SAMPLE: 6225252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ug/L	0.0019	0.0016J	85	50-150	
9Cl-PF3ONS	ug/L	0.0019	0.0017J	90	50-150	
ADONA	ug/L	0.0019	0.0015J	79	50-150	
HFPO-DA	ug/L	0.002	0.0017J	87	50-150	
NEtFOSAA	ug/L	0.002	0.0016J	81	50-150	
NMeFOSAA	ug/L	0.002	0.0016J	78	50-150	
PFBS	ug/L	0.0018	0.0011J	65	50-150	
PFDA	ug/L	0.002	0.0016J	81	50-150	
PFDoA	ug/L	0.002	0.0016J	80	50-150	
PFHpA	ug/L	0.002	0.0016J	78	50-150	
PFHxA	ug/L	0.002	0.0016J	78	50-150	
PFHxS	ug/L	0.0018	0.0015J	80	50-150	
PFNA	ug/L	0.002	0.0018J	88	50-150	
PFOA	ug/L	0.002	0.0016J	80	50-150	
PFOS	ug/L	0.0019	0.0017J	91	50-150	
PFTeDA	ug/L	0.002	0.0017J	86	50-150	
PFTrDA	ug/L	0.002	0.0017J	87	50-150	
PFUnA	ug/L	0.002	0.0016J	79	50-150	
13C2-PFDA (S)	%			98	70-130	
13C2-PFHxA (S)	%			90	70-130	
HFPO-DAS (S)	%			87	70-130	
NEtFOSAA-d5 (S)	%			91	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6225253 6225254

Parameter	Units	50414459006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
11Cl-PF3OUdS	ug/L	ND	0.15	0.14	0.16	0.15	109	110	70-130	2	30	
9Cl-PF3ONS	ug/L	ND	0.14	0.14	0.16	0.15	109	109	70-130	3	30	
ADONA	ug/L	ND	0.15	0.14	0.14	0.14	98	96	70-130	5	30	
HFPO-DA	ug/L	ND	0.15	0.15	0.15	0.14	94	95	70-130	2	30	

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(920)469-2436

QUALITY CONTROL DATA

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6225253 6225254

Parameter	Units	50414459006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
NEtFOSAA	ug/L	ND	0.15	0.15	0.15	0.15	99	101	70-130	2	30	
NMeFOSAA	ug/L	ND	0.15	0.15	0.15	0.15	95	98	70-130	0	30	
PFBS	ug/L	ND	0.14	0.13	0.13	0.12	92	91	70-130	5	30	
PFDA	ug/L	ND	0.15	0.15	0.16	0.15	101	102	70-130	3	30	
PFDoA	ug/L	ND	0.15	0.15	0.15	0.15	100	102	70-130	2	30	
PFHpA	ug/L	ND	0.15	0.15	0.15	0.14	96	96	70-130	3	30	
PFHxA	ug/L	ND	0.15	0.15	0.14	0.13	90	89	70-130	4	30	
PFHxS	ug/L	ND	0.14	0.14	0.14	0.13	98	96	70-130	5	30	
PFNA	ug/L	ND	0.15	0.15	0.16	0.15	104	103	70-130	4	30	
PFOA	ug/L	ND	0.15	0.15	0.15	0.15	101	100	70-130	4	30	
PFOS	ug/L	ND	0.14	0.14	0.14	0.13	98	98	70-130	3	30	
PFTeDA	ug/L	ND	0.15	0.15	0.17	0.17	110	112	70-130	2	30	
PFTrDA	ug/L	ND	0.15	0.15	0.16	0.16	106	105	70-130	4	30	
PFUnA	ug/L	ND	0.15	0.15	0.15	0.15	100	100	70-130	4	30	
13C2-PFDA (S)	%						102	102	70-130			
13C2-PFHxA (S)	%						89	89	70-130			
HFPO-DAS (S)	%						96	96	70-130			
NEtFOSAA-d5 (S)	%						91	92	70-130			

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(920)469-2436

QUALIFIERS

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - The reported result is an estimated value.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: US0041460.2690 Spickler LF RWs
Pace Project No.: 40302763

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40302763001	**Point No.802 SLLT-RW-2551-5901**	EPA 3010A	518388	EPA 6020B	518507
40302763002	**SLLT-RWDUP01-5999**	EPA 3010A	518388	EPA 6020B	518507
40302763001	**Point No.802 SLLT-RW-2551-5901**	3510C	2616072	EPA 8270E by SIM	2616072
40302763002	**SLLT-RWDUP01-5999**	3510C	2616072	EPA 8270E by SIM	2616072
40302763001	**Point No.802 SLLT-RW-2551-5901**	EPA 8260	518184		
40302763002	**SLLT-RWDUP01-5999**	EPA 8260	518184		
40302763003	**Point No.999 SLLT-RW-TB01-5901**	EPA 8260	518184		
40302763001	**Point No.802 SLLT-RW-2551-5901**	EPA 537.1	1135693	EPA 537.1	1135736
40302763002	**SLLT-RWDUP01-5999**	EPA 537.1	1135693	EPA 537.1	1135736

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

403027163

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	WSP USA	Report To:	Alison Levinson	Attention:	Alison Levinson
Address:	1075 Big Shanty Rd NW, Suite 100	Copy To:	Kathy Gunderson	Company Name:	WSP USA
	Kennesaw, GA 30144		Marie Weber-Goeke	Address:	1075 Big Shanty Rd NW, Suite 100, Kennesaw, G
Email To:	alison.levinson@wsp.com	Purchase Order No.:	309034.14	Pace Quote Reference:	090210
Phone:	770-973-2100 Fax: 770-973-7395	Project Name:	Spickler LF License No. 4077 ID No. 737154550	Pace Project Manager:	Hayden Putt
Requested Due Date/TAT:	STANDARD TAT	Project Number:	US0041460.2690	Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER CERCLA

Site Location STATE: Wisconsin

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs(8260-Site-Specific)	Total Metals As, Ba, Fe, M	Vinyl Chloride SIM 8260	PFAS (Method 537.1)		1,4-dioxane (8270-SIM)					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Requested Analysis Filtered (Y/N)	N	N	N	N		N					10/6/25 EJ
1	~~Point No. 800~~ SLLT-RW-2543-5901	~~WT~~	~~G~~																										NOT SAMPLED
2	Point No. 802 SLLT-RW-2551-5901	WT	G			10/3/25	1007		11	2		1	6				2		x	x	x	x		x					~~021~~ 001
3	~~Point No. 804~~ SLLT-RW-2550-5901	~~WT~~	~~G~~																~~x~~	~~x~~	~~x~~	~~x~~		~~x~~					NOT SAMPLED
4	SLLT-RWDUP01-5999	WT	G			10/3/25	—		11	2		1	6				2		x	x	x	x		x					~~022~~ 002
5	Point No. 999 SLLT-RW-TB01-5901	WT				10/3/25	0800		6				6						x		x								~~023~~ 003
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Site-Specific VOCs:1,2-Dichloroethane, PCE, TCE, Methylene Chloride, Vinyl Chloride, Benzene, cis-1,2-dichloroethene, 1,1-dichloroethane, 1,4-Dichlorobenzene, and Chloroethane.	[signature] Fedex	10-3-25	1330				10/6/25 EJ
	~~Fedex~~	~~10/4/25~~	~~9:40~~	[signature] Pace	10/6/25	~~10:15~~	8:50
	Fedex	10/6/25	8:50				
							Temp in °C: 1.3
							Received on Ice (Y/N): Y
							Custody Sealed Cooler (Y/N): Y
							Samples Intact (Y/N): Y

FEDEX TRK# 405D 6350 5632

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jordan Pelt CRAIG MCGINN

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/03/25

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Preservation Receipt Form

Client Name: WPS Project # 403027123

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A Initial when completed: EJ Date/ Time:

Lab Lot# of pH paper: 1003244 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm)*	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001					2						1						6										2					X		2.5 / 5
002					2						1						6										2					X		2.5 / 5
003																	4																	2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

10/6/25 EJ

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : ☐Yes ☒No ☐N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	500mL unpres plastic
						GN 2	250mL Tris Hydrochloride plastic

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40302763

40302763

Client Name: UPS

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Purple Mountain ☐ Client ☐ Pace Other: _____

Tracking #: 405063350521

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 154 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature 10/6/25 EJ Uncorr: ~~0.6~~0.5 /Corr: 1.0

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 10/6/25 /Initials: EJ

Labeled By Initials: NL

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☐No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☒No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☒Yes ☐No ☐N/A	12.
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): #549		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

CT LABORATORIES

delivering more than data from your environmental analyses

ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

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ANALYTICAL REPORT

PACE ANALYTICAL
HAYDEN PUTT
1241 BELLEVUE ST
SUITE 9
GREEN BAY, WI 54302

Project Name: SPICKLER LF RWs
Project Phase:
Project #: US0041460.2690
Folder #: 198860
Purchase Order #: PACE WO # 40302763
Contract #: 2288

Arrival Temperature: 3.2
Report Date: 11/3/2025
Date Received: 10/8/2025
Reprint Date: 11/3/2025

CT LAB#: 1636307 Sample Description: SLLT-RW-2551-5901 40302763001 License/Well #: 04077/802 Sampled: 10/3/2025 10:07

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Vinyl chloride	<0.019	ug/L	0.019	0.10	1			10/10/2025 13:11	RLD	EPA 8260C
1,2 Dichloroethane-d4	108	% Recovery	70.0	130	1			10/10/2025 13:11	RLD	EPA 8260C
Bromofluorobenzene	101	% Recovery	70.0	130	1			10/10/2025 13:11	RLD	EPA 8260C
d8-Toluene	99.0	% Recovery	70.0	130	1			10/10/2025 13:11	RLD	EPA 8260C
Dibromofluoromethane	112	% Recovery	70.0	130	1			10/10/2025 13:11	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 1636308 Sample Description: SLLT-RWDUP01-5999 40302763002 License #:04077 Sampled: 10/3/2025 00:01

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Vinyl chloride	<0.019	ug/L	0.019	0.10	1			10/10/2025 13:39	RLD	EPA 8260C
1,2 Dichloroethane-d4	111	% Recovery	70.0	130	1			10/10/2025 13:39	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	70.0	130	1			10/10/2025 13:39	RLD	EPA 8260C
d8-Toluene	96.0	% Recovery	70.0	130	1			10/10/2025 13:39	RLD	EPA 8260C
Dibromofluoromethane	110	% Recovery	70.0	130	1			10/10/2025 13:39	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 1636309 Sample Description: SLLT-RW-TB01-5901 40302763003 License/Well #: 04077/999 Sampled: 10/3/2025 08:00

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Vinyl chloride	<0.019	ug/L	0.019	0.10	1			10/10/2025 14:07	RLD	EPA 8260C
1,2 Dichloroethane-d4	108	% Recovery	70.0	130	1			10/10/2025 14:07	RLD	EPA 8260C
Bromofluorobenzene	102	% Recovery	70.0	130	1			10/10/2025 14:07	RLD	EPA 8260C
d8-Toluene	98.0	% Recovery	70.0	130	1			10/10/2025 14:07	RLD	EPA 8260C
Dibromofluoromethane	112	% Recovery	70.0	130	1			10/10/2025 14:07	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates Value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted . The results reported relate only to the samples tested.
This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached. This report has been specifically prepared to satisfy project or program requirements.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Result cannot be used for compliance due to QC issue
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 289
Louisiana NELAP (primary) ID# 115843
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Florida NELAP Lab ID# E871111

DoD-ELAP QSM5.4 -
PJLA Testing Accreditation # 78929

ISO/IEC 17025-2017 Accredited -
PJLA Testing Accreditation # 78929

QC Summary Report

PACE ANALYTICAL **Project Name: SPICKLER LF RWs**

SDG #: 0 **Folder #: 198860** **Project #: US0041460.2690**

Lab Control Spike Duplicate Water

Analytical Run #:	295633	Analysis Date:	10/10/2025	Prep Batch #:		Matrix:	LIQUID
CTLab #:	1637279	Analysis Time:	08:30	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	1637255	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits			RPD	RPD Limit
1,2 Dichloroethane-d4	95.0	% Recovery			100	95.0	87	---	107	0	
Bromofluorobenzene	99.0	% Recovery			100	99.0	90	---	108	0	
d8-Toluene	102	% Recovery			100	102	93	---	108	0	
Dibromofluoromethane	100	% Recovery			100	100	93	---	106	0	
Vinyl chloride	4.87	ug/L	4.59		4.0	122	73	---	127	6	20

Lab Control Spike Water

Analytical Run #:	295633	Analysis Date:	10/10/2025	Prep Batch #:		Matrix:	LIQUID
CTLab #:	1637255	Analysis Time:	08:02	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits			RPD	RPD Limit
1,2 Dichloroethane-d4	99.0	% Recovery			100	99.0	87	---	107		
Bromofluorobenzene	95.0	% Recovery			100	95.0	90	---	108		
d8-Toluene	100	% Recovery			100	100	93	---	108		
Dibromofluoromethane	103	% Recovery			100	103	93	---	106		
Vinyl chloride	4.59	ug/L			4.0	115	73	---	127		20

Method Blank Water

Analytical Run #:	295633	Analysis Date:	10/10/2025	Prep Batch #:		Matrix:	LIQUID
CTLab #:	1639568	Analysis Time:	10:23	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,2 Dichloroethane-d4	104	% Recovery			100	104	68 --- 120		
Bromofluorobenzene	102	% Recovery			100	102	68 --- 120		
d8-Toluene	98.0	% Recovery			100	98.0	71 --- 117		
Dibromofluoromethane	111	% Recovery			100	111	67 --- 122		
Vinyl chloride	0.019	ug/L		U	0		0.019		

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Sample Condition Report

Folder #:	198860	Print Date / Time:	10/08/2025	11:30	
Client:	PACE ANALYTICAL	Received Date / Time / By:	10/08/2025	10:10	BPC
Project Name:	SPICKLER LF RWs	Log-In Date / Time / By:	10/08/2025	11:30	BPC
Project Phase:		Project #:	US0041460.2690		PM: BMS
Coolers:	1-UNMARKED	Temperature:	3.2 C		On Ice: **Y**
Custody Seals Present :	**Y**	COC Present:?	**Y**	Complete?	**Y**
Seal Intact?	**Y**	Numbers:	DATED AND SIGNED		
Ship Method:	FEDEX EXPRESS	Tracking Number:	483019743523		
Adequate Packaging:	**Y**	Temp Blank Enclosed?	**Y**		

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

ONE (1) CUSTODY SEAL WAS PRESENT AND INTACT ON THE COOLER UPON RECEIPT (DATED 10/6/25 AND SIGNED).

Sample ID /	Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1636307	SLLT-RW-2551-				
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Containers of Type	(***VOA HCL***) =	**3**	

Sample ID /	Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1636308	SLLT-RWDUP01-5999				
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Containers of Type	(***VOA HCL***) =	**3**	

Sample ID /	Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1636309	SLLT-RW-TB01				
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Containers of Type	(***VOA HCL***) =	**2**	

Condition Code *Condition Description*

1 Sample Received OK

Chain of Custody

PASI Green Bay Laboratory

Workorder: 40302763 **Workorder Name:** US0041460.2690 Spickler LF RWs **Results Requested By:** 10/31/2025

Report / Invoice To	Subcontract To
Hayden Putt Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436 Email: hayden.putt@pacelabs.com	P.O._____ CT Laboratories LLC 1230 Lange Court Baraboo, WI 53913

Send Invoice To: invoices@pacelabs.coupahost.com
State of Sample Origin: WI LOD/LOQ

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HCL	Requested Analysis: Vinyl Chloride by 8260 SIM	LAB USE ONLY
1	Point No. 802 SLLT-RW-2551-	10/3/2025 10:07	40302763001	Water	3	X	1636307
2	SLLT-RWDUP01-5999	10/3/2025 00:01	40302763002	Water	3	X	1036308
3	Point No. 999 SLLT-RW-TB01	10/3/2025 08:00	40302763003	Water	2	X	1036309
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1		10/08/25 10:00	BPC	10/08/25 10:10
2				
3				

Comments

WI GEMS EDD and EQUIS EDD needed (180926) Level 4 QC package also needed

Cooler Temperature on Receipt 3.2 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

Login # 198860
Company: PACE ANALYTICAL
Project
Logged By: BPC PM: BMS

Cooler Receipt Form

Ice Present (YES) NO

Observed Temperature 3.2

Actual Temperature 3.2

IR Gun # SRT 34

Initials DPC

Date 10/08/25 Time 10:10

Cooler #: T148

Fed Ex Air Overnight
483019743923