

May 25, 2023

Ms. Demaree Collier
Remedial Project Manager
USEPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

Subject: Transmittal of Data
Residential, Plume Monitoring, and Sentinel Wells
Lemberger Landfill Sites
Third Quarter 2022

Dear Ms. Collier:

On behalf of the Lemberger Site Remediation Group (LSRG), and in accordance with the Environmental Monitoring Plan (EMP), Revision 5 (February 2021), and the subsequent monitoring program revisions as approved by the United States Environmental Protection Agency (USEPA) and the Wisconsin Department of Natural Resources (WDNR), TRC Environmental Corporation (TRC) is submitting the following data:

- Attachment 1: Data Validation Comments and Qualified Form 1s For All Wells
- Attachment 2: Table of Wisconsin Administrative Code Chapter NR 140 Groundwater Quality Standards (Enforcement Standards [ESs], Preventive Action Limits [PALs], Maximum Contaminant Levels [MCLs], and Secondary Maximum Contaminant Levels [SMCLs]) for the Pertinent Parameters
- Attachment 3: Tabular Summary of Analytical Results at Each Residential Well
- Attachment 4: Original Laboratory Data Sheets for Residential Wells
- Attachment 5: Residential Well Location Map with Owner/Occupant Addresses
- Attachment 6: Tabular Summary of Analytical Results at Each Monitoring Well
- Attachment 7: Laboratory Data Qualifiers for Monitoring Wells
- Attachment 8: Tabular Summary of Groundwater Standard Exceedances at Plume Monitoring Wells

A CD containing field and laboratory data in an approved WDNR format has been attached to the copies provided to the WDNR and the USEPA, for their use. Groundwater samples were collected during September and October 2022, in accordance with the February 2021 EMP, Revision 5.

All of but one the residential wells specified in the third quarter monitoring program were sampled during this event. Residential well GR-13 was not sampled due to an inoperable pump. No groundwater quality standard exceedances were found among the residential wells sampled during this quarter.

The residential well volatile organic compound (VOC) samples were collected without a hydrochloric acid (HCl) preservative. We are collecting unpreserved samples due to ongoing problems with false-positive chloromethane detections sourced to the HCl preservative. The laboratory analyzed the

Ms. Demaree Collier
USEPA Region 5
May 25, 2023
Page 2

samples within 7 days of collection, which is consistent with an older approved VOC sampling methodology.

Please call if you have questions.

Sincerely,

TRC



Kristopher D. Krause, P.E.
Senior Project Manager



Meredith Westover, P.G.
Senior Hydrogeologist

Attachments

cc: B.J. LeRoy – WDNR
Brian Potts – Perkins Coie, LLP
Kristin Jones – Newell Rubbermaid
Troy Adams – Manitowoc Public Utilities
Scott Karbon – Manitowoc Public Utilities
James Wallner – Red Arrow Products
James Cook – Manitowoc Cranes
Dan Koski – City of Manitowoc
Jane Rhode – City of Manitowoc
Eric Nycz – City of Manitowoc
Felicie Chaume – City of Manitowoc
Dominique Sorel – SS. Papadopoulos & Associates,
Inc. John Lang – EHS Support, LLC
Tom Sullivan – EHS Support, LLC
GEMS Data Submittal Contact (w/diskette)

Attachment 1

Data Validation Comments and Qualified Form 1s For All Wells



Memorandum

To: Meredith Westover

From: Jeanette Daniels (Data Reviewer)
Elizabeth Denly (Peer Reviewer)

Date: January 24, 2023

Subject: Data Validation Report
Groundwater Samples: 3rd Quarter 2022
Lemberger Landfill and Lemberger Transport and Recycling/Franklin, Wisconsin
Laboratory Project Numbers 40253296, 40253891, 40253980

SUMMARY

Limited validation (level III) was performed on the data for 20 groundwater samples, one field duplicate, two field blanks, and three trip blanks collected at the Lemberger Landfill and Lemberger Transport and Recycling Site in Franklin, Wisconsin. The samples were collected on October 13, 14, 26, 27, and 28, 2022. Samples were submitted to Pace Analytical Services, LLC in Green Bay, Wisconsin for analysis. The samples were analyzed for volatile organic compounds (VOCs) using SW-846 method 8260. The laboratory reported the results under laboratory project numbers 40253296, 40253891, and 40253980.

The sample results were assessed using the *USEPA National Functional Guidelines for Organic Superfund Methods Data Review* (EPA-540-R-20-005), November 2020 and the project-specific quality assurance project plan (QAPP), dated September 2011, Revision 1.

In general, the data are valid as reported and may be used for decision-making purposes. The following issues were noted which may have a minor impact on the data usability:

- Select results were reported which were below the lowest calibration standard and quantitation limit (QL); these results were qualified by the laboratory as estimated (J)
- Potential uncertainty exists for the nondetect results for select VOCs in all samples due to continuing calibration nonconformances. These results were qualified as estimated (UJ).
- Potential low bias exists for the nondetect result for vinyl chloride in sample RM-007XXD due to low recovery in the matrix spike duplicate. This result was qualified as estimated (UJ).
- Potential high bias exists for the positive results for 1,1-dichloroethane in samples RM-214D, RM-213XD, RM-306D, and RM-307D due to a high LCS recovery. These results were qualified as estimated (J+) with a potential high bias.

SAMPLES

Samples included in this review are listed below.

Laboratory Project Number 40253296: plume wells collected 10/13/22 and 10/14/22

- RM-404XXD
- RM-101D
- RM-204D
- TB-001
- RM-212D

Laboratory Project Number 40253891: plume wells collected 10/26/22

- RM-402XD
- RM-008D
- TB-001
- RM-102D
- RM-402XXD
- RM-203D
- FB-003

Laboratory Project Number 40253980: plume wells collected 10/27/22 and 10/28/22

- OW-104F
- RM-007XD
- RM-303D
- RM-214D
- RM-306D
- RM-007D
- FB-002
- RM-007XXD
- RM-213XD
- RM-307D
- FDUP-002¹
- RM-005D
- TB-001
- RM-213D

¹ FDUP-002: Field duplicate of RM-007XD

REVIEW ELEMENTS

Sample data were reviewed for the following parameters:

- Agreement of analyses conducted with chain-of-custody (COC) requests
- Data completeness
- Holding times and sample preservation
- Gas chromatography/mass spectrometry (GC/MS) tunes
- Initial and continuing calibrations
- Blanks
- Surrogate spike recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) results
- Laboratory control sample (LCS) results
- Internal standard performance
- Field duplicate results
- Quantitation limits and sample results

DISCUSSION

Agreement of Analyses Conducted with Chain-of-Custody Requests

Sample reports were checked to verify that the results corresponded to analytical requests as designated on the COCs. No issues were noted.

Data Completeness

The data packages were found to be complete as received from the laboratory with the following exception.

- The laboratory only spiked a subset of the VOCs which were reported in the samples in the LCS and MS/MSD analyses. Thus, accuracy and/or precision could not be evaluated for select VOCs.

No validation actions were taken on the basis of this issue.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met. However, the cooler temperature was -0.5°C in laboratory project number 40253296. Since the associated samples were not frozen, there was no adverse impact on the data; qualification of the data was therefore not required.

Samples were received by the laboratory between two to five days after collection. Samples were stored in coolers, on ice, in a locked former treatment building at the site until delivery to the laboratory. No validation actions were required on this basis since the samples were kept on ice prior to delivery to the laboratory and were received on ice and at acceptable cooler temperatures by the laboratory.

GC/MS Tunes

The frequency and abundance of all bromofluorobenzene tunes were within the acceptance criteria.

Initial and Continuing Calibrations

The coefficients of determination, percent relative standard deviations, and relative response factors (RRFs) for all target compounds were within the laboratory acceptance criteria in the initial calibrations.

All RRFs were within the acceptance criteria in the continuing calibrations (CCs). The following table summarizes the percent differences or percent drifts (%Ds) which were outside of the laboratory acceptance criteria in the CCs, the associated samples, and the resulting validation actions.

CC	Analyte	%D	Associated Samples	Validation Actions
40MSVC 10/21/22 @ 07:08	Bromomethane	-33.0480	RM-212D, RM-404XXD, RM-204D, RM-101D, TB-001 (10/14/22)	The nondetect results for the listed VOC were qualified as estimated (UJ) in the associated samples.
40MSVB 10/31/22 @07:21	Chloromethane	- 22.3424	RM-008D, RM-402XD, RM-402XXD, RM-203D, RM-102D, FB-003, TB-001 (10/26/22), RM-005D, OW-104F	The nondetect results for the listed VOC were qualified as estimated (UJ) in the associated samples.
40MSVA 11/03/22 @07:04	Chloroethane	23.3286	RM-214D, RM-213XD, RM-306D, RM-307D, RM-213D	The nondetect results for the listed VOCs were qualified as estimated (UJ) in the associated samples.
	4-Methyl-2-pentanone (MIBK)	20.7922		

CC	Analyte	%D	Associated Samples	Validation Actions
40MSVB 11/04/22 @07:01	Carbon disulfide	-20.7657	RM-007XXD, RM-007XD, FB-002, RM-303D, RM-007D, FDUP-002, TB-001 (10/28/22)	The nondetect results for the listed VOC were qualified as estimated (UJ) in the associated samples.

Blanks

Target analytes were not detected in the laboratory method blanks or trip blanks for VOCs. The following table summarizes the compounds that were detected in the field blanks, the associated samples, and the resulting validation actions.

Analyte	Blank Concentration (µg/L)	QL (µg/L)	Blank ID: Associated Samples	Validation Actions
Toluene	1.0	1.0	FB-002 (10/28/22): RM-005D, RM-303D, RM-007D, RM-007XXD, RM-007XD, FDUP-002, RM-214D, RM-213XD, RM-213D RM-306D, RM-307D, OW-104F	Qualification was not required since toluene was not detected in the associated samples
Toluene	0.95 J	1.0	FB-003 (10/26/22): RM-008D, RM-402XD RM-402XXD, RM-203D RM-102D	Qualification was not required since toluene was not detected in the associated samples.

Surrogate Spike Recoveries

The percent recoveries (%Rs) of the surrogates were within the laboratory acceptance criteria for all samples.

MS/MSD Results

MS/MSD analyses were performed on samples RM-212D, RM-007XXD, RM-213D and RM-005D. All relative percent differences (RPDs) were within the acceptance criteria. The MS/MSD %Rs were within the acceptance criteria except as shown in the table below.

MS/MSD Sample ID	Analyte	MS %R	MSD %R	QC Limits %R	Validation Action
RM-007XXD	Vinyl chloride	Criteria Met	58	60-137	The nondetect result for vinyl chloride in sample RM-007XXD was qualified as estimate (UJ).
RM-213D	1,1-Dichloroethene	137	131	71-130	No qualification was required since the listed analytes were nondetect in the associated sample.
	Carbon disulfide	133	Criteria Met	70-130	

Note that the laboratory only spiked a subset of the VOCs which were reported in the samples in the MS/MSDs. Thus, accuracy and precision could not be evaluated for the following VOCs (which were

not spiked) in the MS/MSD analyses: 2-butanone, 2-hexanone, 4-methyl-2-pentanone, and acetone. No validation action was taken on this basis.

LCS Results

An LCS was performed each day prior to sample analysis. All LCS %Rs for the VOCs were within the laboratory's acceptance criteria except as shown in the table below.

Analyte	LCS %R	QC Limits %R	QC Batch: Associated Sample(s)	Validation Action
1,1-Dichloroethane	134	70-130	2478447: RM-213D, RM-214D, RM-213XD, RM-306D, RM-307D	The positive results for 1,1-dichloroethane in samples RM-214D, RM-213XD, RM-306D, and RM-307D were qualified estimated with a potential high bias (J+). No qualification was required for 1,2-dichloropropane in all associated samples and 1,1-dichloroethane in sample RM-213D since these compounds were not detected in these samples.
1,2-Dichloropropane	122	80-121		

Note that the laboratory only spiked a subset of the VOCs that were reported in the samples in the LCS. Thus, accuracy could not be evaluated for the following VOCs (which were not spiked) in all LCSs: 2-butanone, 2-hexanone, 4-methyl-2-pentanone, and acetone. No validation action was taken on this basis.

Internal Standard Performance

Internal standards were within the method acceptance criteria in all sample analyses.

Field Duplicate Results

The samples listed below were submitted as the field duplicate pair with this data set.

- RM-007XD and FDUP-002

The following table summarizes the RPDs or absolute differences (AbsDs) of the detected results in the field duplicate pair. All criteria were met.

Analyte	QL (mg/L)	RM-007XD (mg/L)	FDUP-002 (mg/L)	RPD (%) or AbsD (mg/L)	Validation Action
1,1,1-Trichloroethane	1.0/2.5	223	206	RPD = 7.9	None; all criteria were met (see criteria, below)
1,1-Dichloroethane	1.0/2.5	173	170	RPD = 1.8	
1,1-Dichloroethene	1.0/2.5	29.6	23.3	RPD = 24	
Tetrachloroethene	1.0/2.5	2.3	1.8 J	AbsD = 0.5	
Trichloroethene	1.0/2.5	44.0	39.3	RPD = 11	
cis-1,2-Dichloroethene	1.0/2.5	74.8	69.5	RPD = 7.4	
trans-1,2-Dichloroethene	1.0/2.5	< 1.0	1.4 J	AbsD = 0.4	

Criteria:

- When both results are > 5x the QL, RPDs must be ≤ 30%.
- When one or both results are < 5x the QL, AbsD must be < the QL.

Quantitation Limits and Sample Results

The following table summarizes the dilutions performed on the samples in this data set; QLs were elevated accordingly by the laboratory.

Sample ID	Parameter	Dilution	Reason for Dilution
RM-303D	VOCs	2.5-fold	Dilutions were performed due to the concentrations of target analytes which would have exceeded the calibration range if analyzed undiluted.
RM-007D	VOCs	2.5-fold	
FDUP-002	VOCs	2.5-fold	

Select results were reported which were below the lowest calibration standard level and QL (or limit of quantitation [LOQ]). These results were qualified as estimated (J) by the laboratory.

The laboratory's LOD for select VOCs was above one or both of the project action limits specified in the QAPP; the affected VOCs, project action limits, and current laboratory LODs are summarized in the table below.

Analyte	Affected Samples	WAC Chapter NR 140 PAL (µg/L)	WAC Chapter NR 140 ES (µg/L)	Laboratory LOD (µg/L)
1,1,2,2-Tetrachloroethane	All samples in this sample set, except for RM-007D, FDUP-002 and RM-303D	0.02	0.2	0.38
Bromodichloromethane		0.06	0.6*	0.42
Bromoform		0.44	4.4*	3.8
Bromomethane		1	10*	1.2
Chloroform		0.6	6*	1.2
cis-1,3-Dichloropropene		0.02	0.2	0.36
trans-1,3-Dichloropropene		0.02	0.2	3.5
Vinyl chloride		0.02	0.2*	0.17
1,1,2,2-Tetrachloroethane		RM-007D, FDUP-002 and RM-303D	0.02	0.2
1,1,2-Trichloroethane	0.5		5*	0.86
1,2-Dichloroethane	0.5		5*	0.73
1,2-Dichloropropane	0.5		5*	1.1
Benzene	0.5		5*	0.74
Bromodichloromethane	0.06		0.6	1.0
Bromoform	0.44		4.4	9.5
Bromomethane	1		10*	3.0
Carbon tetrachloride	0.5		5*	0.92
Chlorodibromomethane	6		60*	6.6
Chloroform	0.6		6*	3.0
Chloromethane	3		30*	4.1
cis-1,3-Dichloropropene	0.02		0.2	0.9
Methylene chloride	0.5		5*	0.80
trans-1,3-Dichloropropene	0.02		0.2	8.7
Vinyl chloride	0.02	0.2	0.44	

* Laboratory LOD is below action limit

QUALIFIED FORM 1s

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-212D

Lab Name: Pace Analytical - Green Bay
 Date Received: 10/18/2022 13:30
 Date Extracted: 10/24/2022 10:09
 Date Analyzed: 10/24/2022 10:09
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0PH.4LEMBERGER LF-PLUME
 Matrix: Water SDG No.: 40253296
 Lab Sample ID: 40253296001
 Lab File ID: 10242022.B\10242213.D
 Instrument: 40MSVC Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2 UJ	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	<0.30	U
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	<0.30	U
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	<0.32	U
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/09/2022 11:17

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-404XXD

Lab Name: Pace Analytical - Green Bay
Date Received: 10/18/2022 13:30
Date Extracted: 10/24/2022 10:26
Date Analyzed: 10/24/2022 10:26
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0PH.4LEMBERGER LF-PLUME
Matrix: Water SDG No.: 40253296
Lab Sample ID: 40253296002
Lab File ID: 10242022.B\10242214.D
Instrument: 40MSVC Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2 UJ	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	0.42	J
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	0.98	J
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	0.50	J
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/09/2022 11:17

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-204D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/18/2022 13:30
Date Extracted: 10/24/2022 12:27
Date Analyzed: 10/24/2022 12:27
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0PH.4LEMBERGER LF-PLUME
Matrix: Water SDG No.: 40253296
Lab Sample ID: 40253296003
Lab File ID: 10242022.B\10242221.D
Instrument: 40MSVC Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2 UJ	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	7.9	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	1.1	
156-59-2	cis-1,2-Dichloroethene	2.1	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	13.2	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	1.9	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/09/2022 11:17

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-101D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/18/2022 13:30
Date Extracted: 10/24/2022 12:44
Date Analyzed: 10/24/2022 12:44
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0PH.4LEMBERGER LF-PLUME
Matrix: Water SDG No.: 40253296
Lab Sample ID: 40253296004
Lab File ID: 10242022.B\10242222.D
Instrument: 40MSVC Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2 UJ	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	2.2	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	2.0	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	0.87	J
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/09/2022 11:17

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-001

Lab Name: Pace Analytical - Green Bay
Date Received: 10/18/2022 13:30
Date Extracted: 10/24/2022 09:52
Date Analyzed: 10/24/2022 09:52
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0PH.4LEMBERGER LF-PLUME
Matrix: Water SDG No.: 40253296
Lab Sample ID: 40253296005
Lab File ID: 10242022.B\10242212.D
Instrument: 40MSVC Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2 UJ	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	<0.30	U
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	<0.30	U
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	<0.32	U
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/09/2022 11:17

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-008D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/28/2022 14:35
Date Extracted: 11/02/2022 12:16
Date Analyzed: 11/02/2022 12:16
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH 4 LEMBERGER LF
Matrix: Water SDG No.: 40253891
Lab Sample ID: 40253891001
Lab File ID: 11022022.B\11022216.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6 UJ	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	6.2	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	0.92	J
156-59-2	cis-1,2-Dichloroethene	4.1	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	20.1	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	3.2	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/12/2022 8:26

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-402XD

Lab Name: Pace Analytical - Green Bay
Date Received: 10/28/2022 14:35
Date Extracted: 11/02/2022 12:37
Date Analyzed: 11/02/2022 12:37
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH 4 LEMBERGER LF
Matrix: Water SDG No.: 40253891
Lab Sample ID: 40253891002
Lab File ID: 11022022.B\11022217.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6 UJ	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	38.9	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	20.1	
156-59-2	cis-1,2-Dichloroethene	19.1	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	0.80	J
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	107	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	11.7	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/12/2022 8:26

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-402XXD

Lab Name: Pace Analytical - Green Bay
Date Received: 10/28/2022 14:35
Date Extracted: 11/02/2022 12:58
Date Analyzed: 11/02/2022 12:58
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH 4 LEMBERGER LF
Matrix: Water SDG No.: 40253891
Lab Sample ID: 40253891003
Lab File ID: 11022022.B\11022218.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6 UJ	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	10.9	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	2.7	
156-59-2	cis-1,2-Dichloroethene	6.4	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	20.7	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	5.0	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/12/2022 8:26

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-203D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/28/2022 14:35
Date Extracted: 11/02/2022 15:05
Date Analyzed: 11/02/2022 15:05
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH 4 LEMBERGER LF
Matrix: Water SDG No.: 40253891
Lab Sample ID: 40253891004
Lab File ID: 11022022.B\11022224.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6 UJ	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	<0.30	U
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	0.52	J
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	<0.32	U
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/12/2022 8:26

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-102D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/28/2022 14:35
Date Extracted: 11/02/2022 13:39
Date Analyzed: 11/02/2022 13:39
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH 4 LEMBERGER LF
Matrix: Water SDG No.: 40253891
Lab Sample ID: 40253891005
Lab File ID: 11022022.B\11022220.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6 UJ	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	<0.30	U
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	<0.30	U
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	<0.32	U
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/12/2022 8:26

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FB-003

Lab Name: Pace Analytical - Green Bay
Date Received: 10/28/2022 14:35
Date Extracted: 11/02/2022 11:14
Date Analyzed: 11/02/2022 11:14
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH 4 LEMBERGER LF
Matrix: Water SDG No.: 40253891
Lab Sample ID: 40253891006
Lab File ID: 11022022.B\11022213.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6 UJ	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	<0.30	U
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	0.95	J
71-55-6	1,1,1-Trichloroethane	<0.30	U
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	<0.32	U
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/12/2022 8:26

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-001

Lab Name: Pace Analytical - Green Bay
Date Received: 10/28/2022 14:35
Date Extracted: 11/02/2022 11:35
Date Analyzed: 11/02/2022 11:35
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH 4 LEMBERGER LF
Matrix: Water SDG No.: 40253891
Lab Sample ID: 40253891007
Lab File ID: 11022022.B\11022214.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6 UJ	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	<0.30	U
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	<0.30	U
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	<0.32	U
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/12/2022 8:26

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

OW-104F

Lab Name: Pace Analytical - Green Bay
Date Received: 10/31/2022 17:57
Date Extracted: 11/02/2022 14:21
Date Analyzed: 11/02/2022 14:21
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER LF PL
Matrix: Water SDG No.: 40253980
Lab Sample ID: 40253980001
Lab File ID: 11022022.B\11022222.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6 UJ	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	3.0	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	1.1	
156-59-2	cis-1,2-Dichloroethene	2.1	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	6.3	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	2.9	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/13/2022 5:18

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-005D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/31/2022 17:57
Date Extracted: 11/02/2022 14:00
Date Analyzed: 11/02/2022 14:00
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER LF PL
Matrix: Water SDG No.: 40253980
Lab Sample ID: 40253980002
Lab File ID: 11022022.B\11022221.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6 UJ	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	10.8	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	2.3	
156-59-2	cis-1,2-Dichloroethene	6.0	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	15.2	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	3.0	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/13/2022 5:18

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-303D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/31/2022 17:57
Date Extracted: 11/04/2022 13:36
Date Analyzed: 11/04/2022 13:36
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 2.5

Contract: 473040.0000PH4 LEMBERGER LF PL
Matrix: Water SDG No.: 40253980
Lab Sample ID: 40253980003
Lab File ID: 11042022.B\11042220.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<21.6	U
71-43-2	Benzene	<0.74	U
75-27-4	Bromodichloromethane	<1.0	U
75-25-2	Bromoform	<9.5	U
74-83-9	Bromomethane	<3.0	U
78-93-3	2-Butanone (MEK)	<16.3	U
75-15-0	Carbon disulfide	<2.8 UJ	U
56-23-5	Carbon tetrachloride	<0.92	U
108-90-7	Chlorobenzene	<2.1	U
75-00-3	Chloroethane	<3.4	U
67-66-3	Chloroform	<3.0	U
74-87-3	Chloromethane	<4.1	U
124-48-1	Dibromochloromethane	<6.6	U
75-34-3	1,1-Dichloroethane	274	
107-06-2	1,2-Dichloroethane	<0.73	U
75-35-4	1,1-Dichloroethene	12.7	
156-59-2	cis-1,2-Dichloroethene	98.5	
156-60-5	trans-1,2-Dichloroethene	1.8	J
78-87-5	1,2-Dichloropropane	<1.1	U
10061-01-5	cis-1,3-Dichloropropene	<0.90	U
10061-02-6	trans-1,3-Dichloropropene	<8.7	U
100-41-4	Ethylbenzene	<0.81	U
591-78-6	2-Hexanone	<15.7	U
75-09-2	Methylene Chloride	<0.80	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<14.9	U
100-42-5	Styrene	<0.89	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.94	U
127-18-4	Tetrachloroethene	2.8	
108-88-3	Toluene	<0.72	U
71-55-6	1,1,1-Trichloroethane	295	
79-00-5	1,1,2-Trichloroethane	<0.86	U
79-01-6	Trichloroethene	86.6	
75-01-4	Vinyl chloride	<0.44	U
1330-20-7	Xylene (Total)	<2.6	U

11/13/2022 5:18

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-007D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/31/2022 17:57
Date Extracted: 11/04/2022 13:56
Date Analyzed: 11/04/2022 13:56
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 2.5

Contract: 473040.0000PH4 LEMBERGER LF PL
Matrix: Water SDG No.: 40253980
Lab Sample ID: 40253980004
Lab File ID: 11042022.B\11042221.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<21.6	U
71-43-2	Benzene	<0.74	U
75-27-4	Bromodichloromethane	<1.0	U
75-25-2	Bromoform	<9.5	U
74-83-9	Bromomethane	<3.0	U
78-93-3	2-Butanone (MEK)	<16.3	U
75-15-0	Carbon disulfide	<2.8 UJ	U
56-23-5	Carbon tetrachloride	<0.92	U
108-90-7	Chlorobenzene	<2.1	U
75-00-3	Chloroethane	<3.4	U
67-66-3	Chloroform	<3.0	U
74-87-3	Chloromethane	<4.1	U
124-48-1	Dibromochloromethane	<6.6	U
75-34-3	1,1-Dichloroethane	232	
107-06-2	1,2-Dichloroethane	<0.73	U
75-35-4	1,1-Dichloroethene	27.7	
156-59-2	cis-1,2-Dichloroethene	82.5	
156-60-5	trans-1,2-Dichloroethene	<1.3	U
78-87-5	1,2-Dichloropropane	<1.1	U
10061-01-5	cis-1,3-Dichloropropene	<0.90	U
10061-02-6	trans-1,3-Dichloropropene	<8.7	U
100-41-4	Ethylbenzene	<0.81	U
591-78-6	2-Hexanone	<15.7	U
75-09-2	Methylene Chloride	<0.80	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<14.9	U
100-42-5	Styrene	<0.89	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.94	U
127-18-4	Tetrachloroethene	2.9	
108-88-3	Toluene	<0.72	U
71-55-6	1,1,1-Trichloroethane	267	
79-00-5	1,1,2-Trichloroethane	<0.86	U
79-01-6	Trichloroethene	51.7	
75-01-4	Vinyl chloride	<0.44	U
1330-20-7	Xylene (Total)	<2.6	U

11/13/2022 5:18

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-007XXD

Lab Name: Pace Analytical - Green Bay
Date Received: 10/31/2022 17:57
Date Extracted: 11/04/2022 12:33
Date Analyzed: 11/04/2022 12:33
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER LF PL
Matrix: Water SDG No.: 40253980
Lab Sample ID: 40253980005
Lab File ID: 11042022.B\11042217.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1 UJ	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	0.32	J
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	<0.30	U
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	<0.32	U
75-01-4	Vinyl chloride	<0.17 UJ	U
1330-20-7	Xylene (Total)	<1.0	U

11/13/2022 5:18

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-007XD

Lab Name: Pace Analytical - Green Bay
Date Received: 10/31/2022 17:57
Date Extracted: 11/04/2022 12:54
Date Analyzed: 11/04/2022 12:54
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER LF PL
Matrix: Water SDG No.: 40253980
Lab Sample ID: 40253980006
Lab File ID: 11042022.B\11042218.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1 UJ	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	173	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	29.6	
156-59-2	cis-1,2-Dichloroethene	74.8	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	2.3	
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	223	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	44.0	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/13/2022 5:18

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FDUP-002

Lab Name: Pace Analytical - Green Bay
Date Received: 10/31/2022 17:57
Date Extracted: 11/04/2022 14:17
Date Analyzed: 11/04/2022 14:17
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 2.5

Contract: 473040.0000PH4 LEMBERGER LF PL
Matrix: Water SDG No.: 40253980
Lab Sample ID: 40253980007
Lab File ID: 11042022.B\11042222.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<21.6	U
71-43-2	Benzene	<0.74	U
75-27-4	Bromodichloromethane	<1.0	U
75-25-2	Bromoform	<9.5	U
74-83-9	Bromomethane	<3.0	U
78-93-3	2-Butanone (MEK)	<16.3	U
75-15-0	Carbon disulfide	<2.8 UJ	U
56-23-5	Carbon tetrachloride	<0.92	U
108-90-7	Chlorobenzene	<2.1	U
75-00-3	Chloroethane	<3.4	U
67-66-3	Chloroform	<3.0	U
74-87-3	Chloromethane	<4.1	U
124-48-1	Dibromochloromethane	<6.6	U
75-34-3	1,1-Dichloroethane	170	
107-06-2	1,2-Dichloroethane	<0.73	U
75-35-4	1,1-Dichloroethene	23.3	
156-59-2	cis-1,2-Dichloroethene	69.5	
156-60-5	trans-1,2-Dichloroethene	1.4	J
78-87-5	1,2-Dichloropropane	<1.1	U
10061-01-5	cis-1,3-Dichloropropene	<0.90	U
10061-02-6	trans-1,3-Dichloropropene	<8.7	U
100-41-4	Ethylbenzene	<0.81	U
591-78-6	2-Hexanone	<15.7	U
75-09-2	Methylene Chloride	<0.80	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<14.9	U
100-42-5	Styrene	<0.89	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.94	U
127-18-4	Tetrachloroethene	1.8	J
108-88-3	Toluene	<0.72	U
71-55-6	1,1,1-Trichloroethane	206	
79-00-5	1,1,2-Trichloroethane	<0.86	U
79-01-6	Trichloroethene	39.3	
75-01-4	Vinyl chloride	<0.44	U
1330-20-7	Xylene (Total)	<2.6	U

11/13/2022 5:18

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FB-002

Lab Name: Pace Analytical - Green Bay
 Date Received: 10/31/2022 17:57
 Date Extracted: 11/04/2022 13:15
 Date Analyzed: 11/04/2022 13:15
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER LF PL
 Matrix: Water SDG No.: 40253980
 Lab Sample ID: 40253980008
 Lab File ID: 11042022.B\11042219.D
 Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1 UJ	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	<0.30	U
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	1.0	
71-55-6	1,1,1-Trichloroethane	<0.30	U
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	<0.32	U
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/13/2022 5:18

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-001

Lab Name: Pace Analytical - Green Bay
Date Received: 10/31/2022 17:57
Date Extracted: 11/04/2022 12:13
Date Analyzed: 11/04/2022 12:13
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER LF PL
Matrix: Water SDG No.: 40253980
Lab Sample ID: 40253980009
Lab File ID: 11042022.B\11042216.D
Instrument: 40MSVB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1 UJ	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	<0.30	U
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	<0.30	U
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	<0.32	U
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/13/2022 5:18

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-214D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/31/2022 17:57
Date Extracted: 11/03/2022 12:51
Date Analyzed: 11/03/2022 12:51
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER LF PL
Matrix: Water SDG No.: 40253980
Lab Sample ID: 40253980010
Lab File ID: 11032022.B\11032221.D
Instrument: 40MSVA Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4 UJ	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	6.1 J+	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	15.8	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0 UJ	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	7.4	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	2.5	
75-01-4	Vinyl chloride	1.0	J
1330-20-7	Xylene (Total)	<1.0	U

11/13/2022 5:18

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-213XD

Lab Name: Pace Analytical - Green Bay
Date Received: 10/31/2022 17:57
Date Extracted: 11/03/2022 14:11
Date Analyzed: 11/03/2022 14:11
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER LF PL
Matrix: Water SDG No.: 40253980
Lab Sample ID: 40253980011
Lab File ID: 11032022.B\11032225.D
Instrument: 40MSVA Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4 UJ	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	4.8 J+	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	2.3	
156-59-2	cis-1,2-Dichloroethene	3.5	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0 UJ	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	10.8	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	2.4	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/13/2022 5:18

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-213D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/31/2022 17:57
Date Extracted: 11/03/2022 09:44
Date Analyzed: 11/03/2022 09:44
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER LF PL
Matrix: Water SDG No.: 40253980
Lab Sample ID: 40253980012
Lab File ID: 11032022.B\11032212.D
Instrument: 40MSVA Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4 UJ	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	<0.30	U
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0 UJ	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	2.2	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	0.54	J
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/13/2022 5:18

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-306D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/31/2022 17:57
Date Extracted: 11/03/2022 14:31
Date Analyzed: 11/03/2022 14:31
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER LF PL
Matrix: Water SDG No.: 40253980
Lab Sample ID: 40253980013
Lab File ID: 11032022.B\11032226.D
Instrument: 40MSVA Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4 UJ	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	7.2 J+	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	3.0	
156-59-2	cis-1,2-Dichloroethene	0.62	J
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0 UJ	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	50.9	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	4.5	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/13/2022 5:18

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-307D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/31/2022 17:57
Date Extracted: 11/03/2022 14:50
Date Analyzed: 11/03/2022 14:50
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER LF PL
Matrix: Water SDG No.: 40253980
Lab Sample ID: 40253980014
Lab File ID: 11032022.B\11032227.D
Instrument: 40MSVA Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4 UJ	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	26.8 J+	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	3.5	
156-59-2	cis-1,2-Dichloroethene	2.9	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0 UJ	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	0.74	J
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	72.1	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	9.9	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

11/13/2022 5:18



Memorandum

To: Meredith Westover

From: Jeanette Daniels (Data Reviewer)
Elizabeth Denly and Kristen Morin (Peer Reviewer)

Date: January 26, 2023

Subject: Data Validation Report
Groundwater Samples: 3rd Quarter 2022
Lemberger Landfill and Lemberger Transport and Recycling/Franklin, Wisconsin
Laboratory Project Numbers (All Revised 1/25/23) 40252499, 40253296, 40253891,
40253980

SUMMARY

Limited validation (level III) was performed on the data for 12 groundwater samples, two field duplicates, and two field blanks collected at the Lemberger Landfill and Lemberger Transport and Recycling Site in Franklin, Wisconsin. The samples were collected on September 29 and 30, and October 13, 14, 26, and 28, 2022. Samples were submitted to Pace Analytical Services, LLC in Green Bay, Wisconsin for analysis. The samples were analyzed for one or more of the following parameters:

- Total iron and manganese using SW-846 Method 6020B
- Chloride and sulfate using EPA Method 300.0
- Alkalinity using EPA Method 310.2
- Nitrogen/nitrate + nitrite using EPA Method 353.2
- Total organic carbon (TOC) using Standard Methods 5310C

The laboratory reported the results under laboratory project numbers 40252499 (revised 1/25/23), 40253296 (revised 1/25/23), 40253891 (revised 1/25/23), and 40253980 (revised 1/25/23).

The sample results were assessed using the *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review* (EPA-542-R-20-006), November 2020 and the project-specific quality assurance project plan (QAPP), dated September 2011, Revision 1.

In general, the data are valid as reported and may be used for decision-making purposes. The following issues were noted which may have a minor impact on the data usability:

- Select metals and TOC results were reported which were below the lowest calibration standard and quantitation limit (QL); these results were qualified by the laboratory as estimated (J).
- Potential high bias exists for the positive result for manganese in sample RM-404XXD due to calibration blank contamination; this result was qualified as estimated (J+) with a potential high bias.
- The positive result for manganese in sample RM-204D was qualified as estimated nondetect (UJ) at the reported concentration due to calibration blank contamination.

- Potential high bias exists for the positive results for TOC in all groundwater samples in this data set due to field blank contamination. These results were qualified as estimated (J+) with a potential high bias.
- Potential high bias exists for the positive results for alkalinity in all groundwater samples in this data set due to high recoveries in the MS and/or MSD analyses. These results were qualified as estimated (J+) with a potential high bias.
- Potential high bias exists for the positive results for chloride and sulfate in all groundwater samples in data set 40252499 except RM-401XXD due to high recoveries in the MS and MSD analyses. These results were qualified as estimated (J+) with a potential high bias.

SAMPLES

Samples included in this review are listed below.

Laboratory Project Number 40252499: sentinel wells collected 9/29 – 9/30/22

- RM-401XXD
- RM-003XXD
- RM-002D
- FB-001
- RM-210D
- FDUP-001¹

Laboratory Project Number 40253296: plume wells collected 10/13/22 and 10/14/22

- RM-404XXD
- RM-204D

Laboratory Project Number 40253891: plume wells collected 10/26/22

- RM-402XD
- RM-102D
- RM-203D

Laboratory Project Number 40253980: plume wells collected 10/28/22

- OW-104F
- RM-007XD
- RM-007D
- FB-002
- FDUP-002²

¹ FDUP-001: Field duplicate of RM-003XXD

² FDUP-002: Field duplicate of RM-007XD

REVIEW ELEMENTS

Sample data were reviewed for the following parameters:

- Agreement of analyses conducted with chain-of-custody (COC) requests
- Data completeness
- Holding times and sample preservation
- Inductively coupled plasma-mass spectrometry (ICP-MS) tune results (Metals only)
- Initial and continuing calibrations
- Interference check sample (ICS) results (Metals only)
- Blanks
- Matrix spike/matrix spike duplicate (MS/MSD) results
- Laboratory control sample (LCS) results
- Internal standard performance (Metals only)

- Serial dilution results (Metals only)
- Laboratory duplicate results
- Field duplicate results
- Quantitation limits and sample results

DISCUSSION

Agreement of Analyses Conducted with Chain-of-Custody Requests

Sample reports were checked to verify that the results corresponded to analytical requests as designated on the COCs. No issues were noted.

The laboratory noted that sample RM-007XD in report 40253980 had no ID or date on the TOC bottle. No validation action was required.

Data Completeness

The data packages were found to be complete as received from the laboratory with the following exception. A discrepancy was noted with the reported QLs on the calibration blank forms for sulfate and TOC in all laboratory reports; the laboratory was contacted about this issue during validation and provided revised reports to correct this issue.

Holding Times and Sample Preservation

All samples were analyzed within the method-specified holding time. All samples were received by the laboratory on ice and at the proper temperature. The cooler temperature was noted by lab as being -0.5°C in report 40253296.

Samples were received by the laboratory between two to five days after collection. Samples were stored in coolers, on ice, in a locked former treatment building at the site until delivery to the laboratory. No validation actions were required on this basis since the samples were kept on ice prior to delivery to the laboratory and were received on ice and at acceptable cooler temperatures by the laboratory.

The laboratory noted that sample RM-204D in report number 40253296 and sample RM-402XD in report number 40253891 were received partially frozen. No validation action was required on this basis.

ICP-MS Tune Results (Metals only)

The resolution of the mass calibration was within 0.1 atomic mass units (amu) over the range of 7 to 208 amu. The percent relative standard deviations (%RSDs) for all analytes in the tuning solution met the acceptance criteria of <5%.

Initial and Continuing Calibrations

Metals

Initial calibration correlation coefficients provided in laboratory reports 40252499 and 40253891 met criteria; laboratory reports 40253296 and 40253980 did not include the initial calibration data, but criteria were met based on the case narrative. The initial calibration verification (ICV) and continuing



calibration verification (CCV) percent recoveries (%Rs) met the method acceptance limits. The low-level check standard %Rs were within 70-130%.

Chloride, Sulfate, Alkalinity, Nitrogen/Nitrate + Nitrite, TOC

Initial calibration correlation coefficients provided in laboratory reports 40252499 and 40253891 met criteria; laboratory reports 40253296 and 40253980 did not include the initial calibration data, but criteria were met based on the case narrative.

The ICV and CCV %Rs met the method acceptance limits. The low-level check standard %Rs were within 60-140%.

ICS Results (Metals only)

The ICS analyses %Rs for iron and manganese were within the 80-120% acceptance criteria. The ICSA results were not evaluated since the interferent, iron, was not detected in the samples at concentrations comparable to the ICS solutions.

Blanks

Metals

Target analytes were not detected in the associated field blanks and method blanks. Manganese (2.8 J ug/L) was detected in the calibration blank associated with samples RM-204D and RM-404XXD. The positive result for manganese in sample RM-404XXD was qualified as estimated (J+) with a potential high bias. The positive result for manganese in sample RM-204D was qualified as estimated nondetect (UJ) at the reported concentration since the result was < QL.

Alkalinity, Nitrogen/Nitrate + Nitrite, Chloride, Sulfate

Target analytes were not detected in the associated calibration blanks, field blanks, and method blanks.

The laboratory's instrument detection limits (IDLs), which were used to evaluate calibration blanks, were set to the QLs and were approximately 3.4×, 4.6×, 4.5×, and 4.2× higher than the sample limits of detection (LODs) (or method detection limits [MDLs]) for alkalinity, chloride, sulfate, and nitrate + nitrite, respectively, in all sample sets. Thus, calibration blanks were only evaluated to the IDLs (or QLs) while samples and associated method blanks were evaluated to the MDLs for these parameters.

TOC

Target analytes were not detected in the associated calibration blanks and method blanks.

The laboratory's IDL, which was used to evaluate calibration blanks, was set to the QL and was approximately 3.6× higher than the sample LOD (or MDL) for TOC in all sample sets. Thus, calibration blanks were only evaluated to the IDL (or QL) while samples and associated method blanks were evaluated to the MDL for TOC.

TOC was detected in both field blanks associated with the samples in this data set at the listed concentrations: FB-001 (0.40 J mg/L) and FB-002 (0.29 J mg/L). The results for TOC in all groundwater

samples in this data set were <10× the field blank concentrations; thus, the positive results for TOC in all groundwater samples in this data set were qualified as estimated (J+) with a potential high bias.

MS/MSD Results

MS/MSD analyses were performed on the following samples for the indicated parameters:

- Laboratory project number 40253296: RM-204D for alkalinity
- Laboratory project number 40253980: OW-104F and RM-007D for TOC, OW-104F for chloride and sulfate
- Laboratory project number 40252499: RM-401XXD* for metals, chloride, sulfate, alkalinity, nitrogen/nitrate + nitrite, and TOC
- Laboratory project number 40253891: RM-203D for alkalinity, RM-402XD* for metals and nitrogen/nitrate + nitrite

*A post digestion spike was also performed on this sample for metals.

The following table summarizes the %Rs that were outside of the laboratory's acceptance criteria in the MS/MSD analyses and the validation actions; all relative percent difference (RPD) criteria were met.

MS/MSD Sample ID	Analyte	MS %R	MSD %R	QC Limits %R	Validation Action
RM-204D	Alkalinity	Met criteria	113	90-110	The positive results for alkalinity in all groundwater samples in this data set were qualified as estimated (J+) with a potential high bias.
RM-401XXD	Alkalinity	112	Met criteria	90-110	
RM-203D	Alkalinity	Met criteria	112	90-110	
Associated samples: All groundwater samples in this data set					
OW-104F	Chloride	115	115	90-110	The positive results for chloride and sulfate in all groundwater samples in data set except RM-401XXD were qualified as estimated (J+) with a potential high bias.
	Sulfate	118	118	90-110	
Associated samples: All groundwater samples in data set except RM-401XXD					

LCS Results

The LCS %Rs were within the laboratory acceptance criteria for metals, alkalinity, nitrogen/nitrate + nitrite, chloride, sulfate, and TOC analyses.

Internal Standard Performance (Metals only)

Internal standards were within the method acceptance criteria in all sample analyses.

Serial Dilution Results (Metals only)

Serial dilution analyses for the metals analyses were performed on samples RM-003XXD and RM-203D; all criteria were met.

Laboratory Duplicate Results

Laboratory duplicates were not performed on samples from these data sets.

Field Duplicate Results

The samples listed below were submitted as the field duplicate pairs with this data set.

- RM-007XD and FDUP-002 (laboratory project number 40253980)
- RM-003XXD and FDUP-001 (laboratory project number 40252499)

The following tables summarize the RPDs or absolute differences (AbsDs) of the detected results in the field duplicate pairs. All criteria were met.

Analyte	QL (mg/L)	RM-007XD (mg/L)	FDUP-002 (mg/L)	RPD (%) or AbsD (mg/L)	Validation Action
Chloride	2.0	8.8	8.8	AbsD = 0.0	None; all criteria were met (see criteria, below)
Sulfate	10.0	128	130	RPD = 1.6	
Alkalinity	25.0	455	455	RPD = 0.0	
Nitrogen/nitrate + nitrite	0.25	1.4	1.3	RPD = 7.4	
TOC	0.50	1.5	1.4	AbsD = 0.1	

Analyte	QL (mg/L)	RM-003XXD (mg/L)	FDUP-001 (mg/L)	RPD (%) or AbsD (mg/L)	Validation Action
Chloride	2.0	29.3	29.6	RPD = 1.0	None; all criteria were met (see criteria, below)
Sulfate	2.0	28.3	28.3	RPD = 0.0	
Alkalinity	25.0	351	360	RPD = 2.5	
Nitrogen/nitrate + nitrite	0.25	6.0	6.1	RPD = 1.7	
TOC	0.5	1.2	1.3	AbsD = 0.1	

Criteria:

- When both results are > 5x the QL, RPDs must be ≤ 35%.
- When one or both results are < 5x the QL, AbsD must be < the QL.

Quantitation Limits and Sample Results

The following table summarizes the dilutions performed on the samples in this data set; QLs were elevated accordingly by the laboratory.

Sample ID	Parameter	Dilution	Reason for Dilution
RM-204D	Alkalinity	2-fold	Dilutions were performed due to the concentrations of target or non-target analytes which would have exceeded the calibration range if analyzed undiluted.
RM-007D	Alkalinity	2-fold	
	Sulfate	10-fold	
RM-007XD	Sulfate	5-fold	
FDUP-002	Sulfate	5-fold	Dilutions were performed due to the concentrations of target or non-target analytes which would have exceeded the calibration range if analyzed undiluted.
RM-401XXD	Alkalinity	2-fold	
	Nitrogen/nitrate + nitrite	2-fold	
RM-402XD	Sulfate	10-fold	
RM-203D	Alkalinity	2-fold	
RM-102D	Nitrogen/nitrate + nitrite	5-fold	

Select metals and TOC results were reported which were below the lowest calibration standard level and QL (or limit of quantitation [LOQ]). These results were qualified as estimated (J) by the laboratory.

The laboratory's current LOD for chloride, sulfate, nitrogen/nitrate + nitrite, iron, and manganese were below the project action limits specified in the QAPP. No project action limits were specified in the QAPP for alkalinity and TOC.

QUALIFIED FORM 1s

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-401XXD

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	<58.0	U	ug/L	1	10/25/2022 14:17
7439-96-5	Manganese	<1.2	U	ug/L	1	10/25/2022 14:17

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-003XXD

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	<58.0	U	ug/L	1	10/25/2022 14:47
7439-96-5	Manganese	<1.2	U	ug/L	1	10/25/2022 14:47

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-002D

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	115	J	ug/L	1	10/25/2022 15:01
7439-96-5	Manganese	95.0		ug/L	1	10/25/2022 15:01

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-210D

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	206	J	ug/L	1	10/25/2022 15:09
7439-96-5	Manganese	7.5		ug/L	1	10/25/2022 15:09

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

FDUP-001

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499007 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	<58.0	U	ug/L	1	10/25/2022 15:16
7439-96-5	Manganese	<1.2	U	ug/L	1	10/25/2022 15:16

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

FB-001

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499008 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	<58.0	U	ug/L	1	10/24/2022 18:07
7439-96-5	Manganese	<1.2	U	ug/L	1	10/24/2022 18:07

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-401XXD

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	32.9		mg/L	1	10/10/2022 14:55
14808-79-8	Sulfate	21.9		mg/L	1	10/10/2022 14:55

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-003XXD

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	29.3	J+	mg/L	1	10/10/2022 15:39
14808-79-8	Sulfate	28.3	J+	mg/L	1	10/10/2022 15:39

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-002D

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	13.1	J+	mg/L	1	10/10/2022 16:39
14808-79-8	Sulfate	36.0	J+	mg/L	1	10/10/2022 16:39

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-210D

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	17.3	J+	mg/L	1	10/10/2022 16:53
14808-79-8	Sulfate	37.4	J+	mg/L	1	10/10/2022 16:53

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

FDUP-001

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499007 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	29.6	J+	mg/L	1	10/10/2022 17:08
14808-79-8	Sulfate	28.3	J+	mg/L	1	10/10/2022 17:08

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

FB-001

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499008 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	<0.43	U	mg/L	1	10/10/2022 17:23
14808-79-8	Sulfate	<0.44	U	mg/L	1	10/10/2022 17:23

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-401XXD

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	310	J+	mg/L	2	10/07/2022 11:43
	Nitrogen, NO2 plus NO3	10		mg/L	2	10/11/2022 12:22
7440-44-0	Total Organic Carbon	0.97	J+	mg/L	1	10/12/2022 21:10

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-003XXD

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
 Lab Sample ID: 40252499004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	351	J+	mg/L	1	10/07/2022 11:46
	Nitrogen, NO2 plus NO3	6.0		mg/L	1	10/11/2022 12:26
7440-44-0	Total Organic Carbon	1.2	J+	mg/L	1	10/12/2022 21:57

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-002D

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
Lab Sample ID: 40252499005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	320	J+	mg/L	1	10/07/2022 11:47
	Nitrogen, NO2 plus NO3	0.97		mg/L	1	10/11/2022 12:26
7440-44-0	Total Organic Carbon	1.8	J+	mg/L	1	10/12/2022 22:11

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-210D

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
 Lab Sample ID: 40252499006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	379	J+	mg/L	1	10/07/2022 11:48
	Nitrogen, NO2 plus NO3	4.1		mg/L	1	10/11/2022 12:27
7440-44-0	Total Organic Carbon	1.2	J+	mg/L	1	10/12/2022 22:26

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

FDUP-001

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
 Lab Sample ID: 40252499007 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	360	J+	mg/L	1	10/07/2022 11:49
	Nitrogen, NO2 plus NO3	6.1		mg/L	1	10/11/2022 12:28
7440-44-0	Total Organic Carbon	1.3	J+	mg/L	1	10/12/2022 22:40

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

FB-001

Lab Name: Pace Analytical - Green Bay SDG No. : 40252499 Contract: 473040.0000PH4
 Lab Sample ID: 40252499008 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	<7.4	U	mg/L	1	10/07/2022 11:50
	Nitrogen, NO2 plus NO3	<0.059	U	mg/L	1	10/11/2022 12:28
7440-44-0	Total Organic Carbon	0.40	J	mg/L	1	10/12/2022 22:54

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-404XXD

Lab Name: Pace Analytical - Green Bay SDG No. : 40253296 Contract: 473040.OPH.4LEMBERGER
Lab Sample ID: 40253296002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	<58.0	U	ug/L	1	11/12/2022 03:32
7439-96-5	Manganese	5.4	J+	ug/L	1	11/12/2022 03:32

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-204D

Lab Name: Pace Analytical - Green Bay SDG No. : 40253296 Contract: 473040.0PH.4LEMBERGER
 Lab Sample ID: 40253296003 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	<58.0	U	ug/L	1	11/12/2022 03:40
7439-96-5	Manganese	1.8 UJ	J	ug/L	1	11/12/2022 03:40

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-404XXD

Lab Name: Pace Analytical - Green Bay SDG No. : 40253296 Contract: 473040.0PH.4LEMBERGER
Lab Sample ID: 40253296002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	13.6	J+	mg/L	1	10/25/2022 18:24
14808-79-8	Sulfate	35.2	J+	mg/L	1	10/25/2022 18:24

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-204D

Lab Name: Pace Analytical - Green Bay SDG No. : 40253296 Contract: 473040.0PH.4LEMBERGER
Lab Sample ID: 40253296003 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	15.4	J+	mg/L	1	10/25/2022 18:39
14808-79-8	Sulfate	34.5	J+	mg/L	1	10/25/2022 18:39

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-404XXD

Lab Name: Pace Analytical - Green Bay SDG No. : 40253296 Contract: 473040.OPH.4LEMBERGER
 Lab Sample ID: 40253296002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	308	J+	mg/L	1	10/21/2022 12:22
	Nitrogen, NO2 plus NO3	2.6		mg/L	1	10/27/2022 11:13
7440-44-0	Total Organic Carbon	1.5	J+	mg/L	1	10/31/2022 18:50

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-204D

Lab Name: Pace Analytical - Green Bay SDG No. : 40253296 Contract: 473040.OPH.4LEMBERGER
Lab Sample ID: 40253296003 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	349	J+	mg/L	2	10/21/2022 12:23
	Nitrogen, NO2 plus NO3	3.4		mg/L	1	10/27/2022 11:14
7440-44-0	Total Organic Carbon	0.93	J+	mg/L	1	10/31/2022 19:25

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-402XD

Lab Name: Pace Analytical - Green Bay SDG No. : 40253891 Contract: 473040.0000PH 4
Lab Sample ID: 40253891002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	<58.0	U	ug/L	1	11/27/2022 19:57
7439-96-5	Manganese	3.1	J	ug/L	1	11/27/2022 19:57

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-203D

Lab Name: Pace Analytical - Green Bay SDG No. : 40253891 Contract: 473040.0000PH 4
Lab Sample ID: 40253891004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	125	J	ug/L	1	11/28/2022 17:51
7439-96-5	Manganese	3.3	J	ug/L	1	11/27/2022 19:13

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-102D

Lab Name: Pace Analytical - Green Bay SDG No. : 40253891 Contract: 473040.0000PH 4
Lab Sample ID: 40253891005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	<58.0	U	ug/L	1	11/27/2022 20:27
7439-96-5	Manganese	<1.2	U	ug/L	1	11/27/2022 20:27

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-402XD

Lab Name: Pace Analytical - Green Bay SDG No. : 40253891 Contract: 473040.0000PH 4
Lab Sample ID: 40253891002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	22.2	J+	mg/L	1	11/10/2022 16:40
14808-79-8	Sulfate	323	J+	mg/L	10	11/10/2022 18:54

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-203D

Lab Name: Pace Analytical - Green Bay SDG No. : 40253891 Contract: 473040.0000PH 4
Lab Sample ID: 40253891004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	27.4	J+	mg/L	1	11/10/2022 16:55
14808-79-8	Sulfate	25.9	J+	mg/L	1	11/10/2022 16:55

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-102D

Lab Name: Pace Analytical - Green Bay SDG No. : 40253891 Contract: 473040.0000PH 4
Lab Sample ID: 40253891005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	23.1	J+	mg/L	1	11/10/2022 17:10
14808-79-8	Sulfate	11.2	J+	mg/L	1	11/10/2022 17:10

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-402XD

Lab Name: Pace Analytical - Green Bay SDG No. : 40253891 Contract: 473040.0000PH 4
Lab Sample ID: 40253891002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	402	J+	mg/L	1	11/03/2022 14:26
	Nitrogen, NO2 plus NO3	4.9		mg/L	1	11/02/2022 12:37
7440-44-0	Total Organic Carbon	1.9	J+	mg/L	1	11/09/2022 10:35

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-203D

Lab Name: Pace Analytical - Green Bay SDG No. : 40253891 Contract: 473040.0000PH 4
 Lab Sample ID: 40253891004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	358	J+	mg/L	2	11/03/2022 14:27
	Nitrogen, NO2 plus NO3	7.6		mg/L	1	11/02/2022 12:39
7440-44-0	Total Organic Carbon	1.2	J+	mg/L	1	11/09/2022 10:49

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-102D

Lab Name: Pace Analytical - Green Bay SDG No. : 40253891 Contract: 473040.0000PH 4
 Lab Sample ID: 40253891005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	291	J+	mg/L	1	11/04/2022 09:42
	Nitrogen, NO2 plus NO3	25.0		mg/L	5	11/02/2022 13:16
7440-44-0	Total Organic Carbon	1.8	J+	mg/L	1	11/09/2022 11:03

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OW-104F

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
Lab Sample ID: 40253980001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	187	J	ug/L	1	11/28/2022 17:58
7439-96-5	Manganese	7.4		ug/L	1	11/27/2022 20:34

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-007D

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
Lab Sample ID: 40253980004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	318		ug/L	1	11/28/2022 18:06
7439-96-5	Manganese	27.8		ug/L	1	11/27/2022 20:41

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-007XD

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
Lab Sample ID: 40253980006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	<58.0	U	ug/L	1	11/27/2022 20:49
7439-96-5	Manganese	<1.2	U	ug/L	1	11/27/2022 20:49

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

FDUP-002

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
Lab Sample ID: 40253980007 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	<58.0	U	ug/L	1	11/27/2022 21:33
7439-96-5	Manganese	<1.2	U	ug/L	1	11/27/2022 21:33

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

FB-002

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
Lab Sample ID: 40253980008 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-89-6	Iron	<58.0	U	ug/L	1	11/27/2022 21:11
7439-96-5	Manganese	<1.2	U	ug/L	1	11/27/2022 21:11

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OW-104F

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
Lab Sample ID: 40253980001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	8.2	J+	mg/L	1	11/10/2022 21:30
14808-79-8	Sulfate	21.5	J+	mg/L	1	11/10/2022 21:30

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-007D

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
Lab Sample ID: 40253980004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	9.9	J+	mg/L	1	11/10/2022 22:14
14808-79-8	Sulfate	217	J+	mg/L	10	11/11/2022 00:13

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-007XD

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
Lab Sample ID: 40253980006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	8.8	J+	mg/L	1	11/10/2022 22:29
14808-79-8	Sulfate	128	J+	mg/L	5	11/11/2022 00:28

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

FDUP-002

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
Lab Sample ID: 40253980007 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	8.8	J+	mg/L	1	11/10/2022 22:44
14808-79-8	Sulfate	130	J+	mg/L	5	11/11/2022 00:43

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

FB-002

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
Lab Sample ID: 40253980008 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
16887-00-6	Chloride	<0.43	U	mg/L	1	11/10/2022 22:59
14808-79-8	Sulfate	<0.44	U	mg/L	1	11/10/2022 22:59

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OW-104F

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
 Lab Sample ID: 40253980001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	307	J+	mg/L	1	11/04/2022 10:37
	Nitrogen, NO2 plus NO3	1.7		mg/L	1	11/02/2022 12:57
7440-44-0	Total Organic Carbon	0.72	J+	mg/L	1	11/09/2022 16:01

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-007D

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
 Lab Sample ID: 40253980004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	526	J+	mg/L	2	11/04/2022 10:38
	Nitrogen, NO2 plus NO3	2.0		mg/L	1	11/02/2022 12:57
7440-44-0	Total Organic Carbon	2.3	J+	mg/L	1	11/09/2022 16:46

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RM-007XD

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
 Lab Sample ID: 40253980006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	455	J+	mg/L	1	11/04/2022 10:39
	Nitrogen, NO2 plus NO3	1.4		mg/L	1	11/02/2022 12:58
7440-44-0	Total Organic Carbon	1.5	J+	mg/L	1	11/09/2022 17:31

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

FDUP-002

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
 Lab Sample ID: 40253980007 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	455	J+	mg/L	1	11/04/2022 10:40
	Nitrogen, NO2 plus NO3	1.3		mg/L	1	11/02/2022 12:59
7440-44-0	Total Organic Carbon	1.4	J+	mg/L	1	11/09/2022 17:46

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

FB-002

Lab Name: Pace Analytical - Green Bay SDG No. : 40253980 Contract: 473040.0000PH4
 Lab Sample ID: 40253980008 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Alkalinity, Total as CaCO3	<7.4	U	mg/L	1	11/04/2022 10:41
	Nitrogen, NO2 plus NO3	<0.059	U	mg/L	1	11/02/2022 13:01
7440-44-0	Total Organic Carbon	0.29	J	mg/L	1	11/09/2022 18:00



Memorandum

To: Meredith Westover

From: Chanice Fish (Data Reviewer)
Kristen Morin (Peer Reviewer)

Date: December 28, 2022

Subject: Data Validation Report
Groundwater Samples (Plume Wells): 3rd Quarter 2022
Lemberger Landfill and Lemberger Transport and Recycling/Franklin, Wisconsin
Laboratory Project Number 40253893

SUMMARY

Limited validation (level III) was performed on the data for five groundwater samples (plume wells) and one field duplicate collected from the Lemberger Landfill and Lemberger Transport and Recycling Site in Franklin, Wisconsin. The samples were collected on October 24, 2022. Samples were submitted to Pace Analytical Services, LLC in Green Bay, Wisconsin for analysis. The samples were analyzed for volatile organic compounds (VOCs) using SW-846 Method 8260B.

The laboratory reported the results under laboratory project number 40253893.

The sample results were assessed using the *USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-20-005)*, November 2020 and the project-specific quality assurance project plan (QAPP), dated September 2011, Revision 1.

In general, the data are valid as reported and may be used for decision-making purposes. The following issues were noted which may have a minor impact on the data usability:

- Select results were reported which were below the lowest calibration standard and quantitation limit (QL); these results were qualified by the laboratory as estimated (J).

SAMPLES

Samples included in this review are listed below.

- RM-202D
- RM-208D
- RM-208XD
- RM-211D
- RM-401XD
- FDUP-003¹

¹ Field duplicate of RM-208XD

REVIEW ELEMENTS

Sample data were reviewed for the following parameters:

- Agreement of analyses conducted with chain-of-custody (COC) requests
- Data completeness
- Holding times and sample preservation
- Gas chromatography/mass spectrometry (GC/MS) tunes
- Initial and continuing calibrations
- Blanks
- Surrogate spike recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) results
- Laboratory control sample (LCS) results
- Internal standard performance
- Field duplicate results
- Quantitation limits and sample results

DISCUSSION

Agreement of Analyses Conducted with Chain-of-Custody Requests

Sample reports were checked to verify that the results corresponded to analytical requests as designated on the COCs. No issues were noted.

Data Completeness

The data package was found to be complete as received from the laboratory with the following exception.

- The laboratory only spiked a subset of the VOCs which were reported in the samples in the LCS and MS/MSD analyses. As a result the accuracy and precision criteria could not be determined for the following four analytes: 2-butanone, 2-hexanone, 4-methyl-2-pentanone, and acetone. No validation action was taken on the basis of this issue.

Holding Times and Sample Preservation

All samples were analyzed within the method-specified holding time. All samples were received by the laboratory on ice and at a temperature within the target range of 0 to 6°C. All samples were noted as properly preserved.

Samples were received by the laboratory four days after collection. As indicated by the field sampler in previous rounds of sampling, when not shipped to the laboratory on the day of collection, samples are stored in coolers, on ice, in a locked former treatment building at the site until delivery to the laboratory. No validation actions were required on this basis since the samples were kept on ice prior to delivery to the laboratory and were received on ice and at acceptable cooler temperatures by the laboratory.

The laboratory noted on the Sample Condition Upon Receipt Form that one of the three vials submitted for sample RM-211D was frozen and arrived shattered. The laboratory was able to perform the analysis with one of the remaining vials; therefore, no validation action was required on this basis.

GC/MS Tunes

All method acceptance criteria were met.

Initial and Continuing Calibrations

The percent relative standard deviations and relative response factors (RRFs) for all target compounds were within the acceptance criteria in the initial calibration. All RRFs and percent differences (%Ds) were within the acceptance criteria in the continuing calibrations. The %Ds which were outside of the acceptance criteria in the VOC initial calibration verification (ICV) standard were not summarized in this memo since the ICV did not immediately precede any VOC sample analyses.

Blanks

Target analytes were not detected in the laboratory method blank.

Surrogate Spike Recoveries

The percent recoveries (%Rs) of the surrogates for all samples were within the laboratory acceptance criteria.

MS/MSD Results

MS/MSD analyses for VOCs were performed on sample RM-208D. The following table summarizes the %R that was outside of the laboratory's acceptance criteria in the MS/MSD analyses and the resulting validation action; all relative percent difference (RPD) criteria were met.

MS/MSD Sample ID	Analyte	MS %R	MSD %R	QC Limits %R	Validation Action
RM-208D	Chloromethane	-	127	42-125	Qualification was required on this basis since chloromethane was non-detect in RM-208D
-: criteria met					

Note that the laboratory only spiked a subset of the VOCs reported in the samples in the MS/MSDs; thus, accuracy and precision could not be evaluated for the following VOCs (which were not spiked) in sample RM-208D: acetone, 2-butanone, 2-hexanone, and 4-methyl-2-pentanone. No validation action was taken on this basis.

LCS Results

An LCS was performed each day prior to sample analysis. All LCS %Rs were within the laboratory's acceptance criteria.

Note that the laboratory only spiked a subset of the VOCs that were reported in the samples in the LCS. Thus, accuracy could not be evaluated for the following VOCs (which were not spiked) in all LCSs: 2-butanone, 2-hexanone, 4-methyl-2-pentanone, and acetone. No validation action was taken on this basis.

Internal Standard Performance

Internal standards were within the method acceptance criteria in all sample analyses.

Field Duplicate Results

Samples RM-208XD and FDUP-003 were submitted as a field duplicate pair with this sample set. Target compounds were not detected in either sample.

Quantitation Limits and Sample Results

No dilutions were performed on the samples in this data set. Select results were reported which were below the lowest calibration standard level and QL (or limit of quantitation [LOQ]). These results were qualified as estimated (J) by the laboratory.

The laboratory's limit of detection (LOD) for select VOCs was above one or both of the project action limits specified in the QAPP. The affected VOCs, project action limits, and current laboratory LODs are summarized in the table below.

Analyte	Affected Samples	WAC Chapter NR 140 PAL (µg/L)	WAC Chapter NR 140 ES (µg/L)	Laboratory LOD (µg/L)
1,1,2,2-Tetrachloroethane	All samples in this sample set	0.02	0.2	0.38
Bromodichloromethane		0.06	0.6*	0.42
Bromoform		0.44	4.4*	3.8
Bromomethane		1	10	1.2
Chloroform		0.6	6*	1.2
Vinyl chloride		0.02	0.2*	0.17
cis-1,3-Dichloropropene		0.02	0.2	0.36
trans-1,3-Dichloropropene		0.02	0.2	3.5
* Laboratory LOD is below action limit				

QUALIFIED FORM 1s

ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF-SE
Pace Project No.: 40253893

Sample: RM-211D **Lab ID: 40253893001** Collected: 10/24/22 07:58 Received: 10/28/22 14:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	0.70J	ug/L	1.0	0.30	1		11/04/22 13:09	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/04/22 13:09	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/04/22 13:09	79-00-5	
1,1-Dichloroethane	0.30J	ug/L	1.0	0.30	1		11/04/22 13:09	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/04/22 13:09	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/04/22 13:09	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/04/22 13:09	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/04/22 13:09	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		11/04/22 13:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		11/04/22 13:09	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		11/04/22 13:09	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/04/22 13:09	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/04/22 13:09	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/04/22 13:09	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/04/22 13:09	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/04/22 13:09	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/04/22 13:09	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/04/22 13:09	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/04/22 13:09	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/04/22 13:09	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/04/22 13:09	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/04/22 13:09	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/04/22 13:09	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/04/22 13:09	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		11/04/22 13:09	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/04/22 13:09	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/04/22 13:09	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/04/22 13:09	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/04/22 13:09	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/04/22 13:09	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/04/22 13:09	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/04/22 13:09	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/04/22 13:09	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/04/22 13:09	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/04/22 13:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/04/22 13:09	2199-69-1	
Toluene-d8 (S)	106	%	70-130		1		11/04/22 13:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF-SE
Pace Project No.: 40253893

Sample: RM-208D Lab ID: 40253893002 Collected: 10/24/22 09:12 Received: 10/28/22 14:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	6.8	ug/L	1.0	0.30	1		11/04/22 14:08	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/04/22 14:08	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/04/22 14:08	79-00-5	
1,1-Dichloroethane	4.3	ug/L	1.0	0.30	1		11/04/22 14:08	75-34-3	
1,1-Dichloroethene	1.8	ug/L	1.0	0.58	1		11/04/22 14:08	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/04/22 14:08	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/04/22 14:08	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/04/22 14:08	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		11/04/22 14:08	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		11/04/22 14:08	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		11/04/22 14:08	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/04/22 14:08	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/04/22 14:08	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/04/22 14:08	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/04/22 14:08	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/04/22 14:08	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/04/22 14:08	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/04/22 14:08	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/04/22 14:08	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/04/22 14:08	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/04/22 14:08	74-87-3	M1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/04/22 14:08	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/04/22 14:08	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/04/22 14:08	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		11/04/22 14:08	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/04/22 14:08	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/04/22 14:08	108-88-3	
Trichloroethene	2.2	ug/L	1.0	0.32	1		11/04/22 14:08	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/04/22 14:08	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/04/22 14:08	1330-20-7	
cis-1,2-Dichloroethene	4.6	ug/L	1.0	0.47	1		11/04/22 14:08	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/04/22 14:08	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/04/22 14:08	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/04/22 14:08	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/04/22 14:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/04/22 14:08	2199-69-1	
Toluene-d8 (S)	108	%	70-130		1		11/04/22 14:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF-SE

Pace Project No.: 40253893

Sample: RM-208XD **Lab ID: 40253893003** Collected: 10/24/22 10:14 Received: 10/28/22 14:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/04/22 13:28	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/04/22 13:28	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/04/22 13:28	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/04/22 13:28	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/04/22 13:28	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/04/22 13:28	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/04/22 13:28	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/04/22 13:28	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		11/04/22 13:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		11/04/22 13:28	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		11/04/22 13:28	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/04/22 13:28	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/04/22 13:28	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/04/22 13:28	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/04/22 13:28	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/04/22 13:28	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/04/22 13:28	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/04/22 13:28	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/04/22 13:28	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/04/22 13:28	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/04/22 13:28	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/04/22 13:28	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/04/22 13:28	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/04/22 13:28	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		11/04/22 13:28	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/04/22 13:28	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/04/22 13:28	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/04/22 13:28	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/04/22 13:28	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/04/22 13:28	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/04/22 13:28	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/04/22 13:28	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/04/22 13:28	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/04/22 13:28	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/04/22 13:28	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		11/04/22 13:28	2199-69-1	
Toluene-d8 (S)	108	%	70-130		1		11/04/22 13:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF-SE
Pace Project No.: 40253893

Sample: RM-202D **Lab ID: 40253893004** Collected: 10/24/22 13:00 Received: 10/28/22 14:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/04/22 13:48	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/04/22 13:48	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/04/22 13:48	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/04/22 13:48	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/04/22 13:48	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/04/22 13:48	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/04/22 13:48	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/04/22 13:48	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		11/04/22 13:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		11/04/22 13:48	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		11/04/22 13:48	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/04/22 13:48	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/04/22 13:48	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/04/22 13:48	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/04/22 13:48	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/04/22 13:48	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/04/22 13:48	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/04/22 13:48	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/04/22 13:48	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/04/22 13:48	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/04/22 13:48	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/04/22 13:48	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/04/22 13:48	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/04/22 13:48	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		11/04/22 13:48	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/04/22 13:48	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/04/22 13:48	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/04/22 13:48	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/04/22 13:48	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/04/22 13:48	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/04/22 13:48	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/04/22 13:48	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/04/22 13:48	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/04/22 13:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/04/22 13:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		11/04/22 13:48	2199-69-1	
Toluene-d8 (S)	108	%	70-130		1		11/04/22 13:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF-SE

Pace Project No.: 40253893

Sample: RM-401XD **Lab ID: 40253893005** Collected: 10/24/22 14:38 Received: 10/28/22 14:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	13.5	ug/L	1.0	0.30	1		11/04/22 14:27	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/04/22 14:27	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/04/22 14:27	79-00-5	
1,1-Dichloroethane	8.4	ug/L	1.0	0.30	1		11/04/22 14:27	75-34-3	
1,1-Dichloroethene	2.7	ug/L	1.0	0.58	1		11/04/22 14:27	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/04/22 14:27	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/04/22 14:27	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/04/22 14:27	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		11/04/22 14:27	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		11/04/22 14:27	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		11/04/22 14:27	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/04/22 14:27	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/04/22 14:27	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/04/22 14:27	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/04/22 14:27	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/04/22 14:27	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/04/22 14:27	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/04/22 14:27	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/04/22 14:27	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/04/22 14:27	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/04/22 14:27	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/04/22 14:27	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/04/22 14:27	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/04/22 14:27	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		11/04/22 14:27	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/04/22 14:27	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/04/22 14:27	108-88-3	
Trichloroethene	2.5	ug/L	1.0	0.32	1		11/04/22 14:27	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/04/22 14:27	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/04/22 14:27	1330-20-7	
cis-1,2-Dichloroethene	4.5	ug/L	1.0	0.47	1		11/04/22 14:27	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/04/22 14:27	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/04/22 14:27	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/04/22 14:27	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/04/22 14:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/04/22 14:27	2199-69-1	
Toluene-d8 (S)	107	%	70-130		1		11/04/22 14:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF-SE
Pace Project No.: 40253893

Sample: FDUP-003 **Lab ID: 40253893006** Collected: 10/24/22 00:00 Received: 10/28/22 14:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/04/22 14:46	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/04/22 14:46	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/04/22 14:46	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/04/22 14:46	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/04/22 14:46	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/04/22 14:46	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/04/22 14:46	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/04/22 14:46	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		11/04/22 14:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		11/04/22 14:46	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		11/04/22 14:46	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/04/22 14:46	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/04/22 14:46	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/04/22 14:46	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/04/22 14:46	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		11/04/22 14:46	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/04/22 14:46	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/04/22 14:46	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/04/22 14:46	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/04/22 14:46	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/04/22 14:46	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/04/22 14:46	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/04/22 14:46	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/04/22 14:46	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		11/04/22 14:46	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/04/22 14:46	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/04/22 14:46	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/04/22 14:46	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/04/22 14:46	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/04/22 14:46	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/04/22 14:46	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/04/22 14:46	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/04/22 14:46	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/04/22 14:46	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/04/22 14:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/04/22 14:46	2199-69-1	
Toluene-d8 (S)	107	%	70-130		1		11/04/22 14:46	2037-26-5	

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Memorandum

To: Meredith Westover

From: David DiGena-Segal (Data Reviewer)
Elizabeth Denly (Peer Reviewer)

Date: January 3, 2023

Subject: Data Validation Report
VOC Groundwater Samples/Residential Wells: 3rd Quarter 2022
Lemberger Landfill and Lemberger Transport and Recycling/Franklin, Wisconsin
Laboratory Project Numbers 40252421, 40252422, and 40252423

SUMMARY

Full validation (level IV) was performed on the data for 17 groundwater samples, two field duplicates, and two trip blanks collected from residential wells at the Lemberger Landfill and Lemberger Transport and Recycling Site in Franklin, Wisconsin. The samples were collected on September 29 and 30 2022. Samples were submitted to Pace Analytical Services, LLC in Green Bay, Wisconsin for analysis. The samples were analyzed for volatile organic compounds (VOCs) using SW-846 Method 8260B. The laboratory reported the results under laboratory project numbers 40252421, 40252422, and 40252423.

The sample results were assessed using the *USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-20-005)*, November 2020 and the project-specific quality assurance project plan (QAPP), dated September 2011, Revision 1.

In general, the data are valid as reported and may be used for decision-making purposes. The following issues were noted which have a minor impact on the data usability:

- Select results were reported which were below the lowest calibration standard and quantitation limit (QL); these results were qualified as estimated (J).
- Potential uncertainty exists for the nondetect results for select VOCs in all samples due to continuing calibration nonconformances. These results were qualified as estimated (UJ).
- Potential low bias exists for the nondetect carbon disulfide result in sample GR-26 due to low recovery in the matrix spike duplicate analysis. This result was qualified as estimated (UJ).

SAMPLES

Samples included in this review are listed below.

Laboratory Project Number 40252421: collected 9/29/22

- GR-14
- GR-16
- GR-63
- GR-64
- GR-66
- TB-001 (09/29/22)

Laboratory Project Number 40252422: collected 9/29/22

- GR-26
- GR-73
- GR-30
- GR-74
- GR-60R
- GR-FDUP-001¹

Laboratory Project Number 40252423: collected 9/30/22

- GR-8
- GR-11
- GR-65
- GR-9
- GR-12
- GR-FDUP-002²
- GR-10
- GR-62
- TB-001 (09/30/22)

¹ Field duplicate of GR-73

² Field duplicate of GR-62

REVIEW ELEMENTS

Sample data were reviewed for the following parameters:

- Agreement of analyses conducted with chain-of-custody (COC) requests
- Data completeness
- Holding times and sample preservation
- Gas chromatography/mass spectrometry (GC/MS) tunes
- Initial and continuing calibrations
- Blanks
- Surrogate spike recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) results
- Laboratory control sample (LCS) results
- Internal standard performance
- Field duplicate results
- Quantitation limits (QLs) and sample results
- Target compound identification

DISCUSSION

Agreement of Analyses Conducted with Chain-of-Custody Requests

Sample reports were checked to verify that the results corresponded to analytical requests as designated on the COC. No issues were noted.

Data Completeness

The data packages were found to be complete as received from the laboratory with the following exception.

- The laboratory only spiked a subset of the VOCs which were reported in the samples in the LCS and MS/MSDs. Thus, accuracy and/or precision could not be evaluated for select VOCs. No validation actions were taken on the basis of this issue.

Holding Times and Sample Preservation

All samples were received by the laboratory on ice but were otherwise unpreserved. All analyses were performed within the method-specified holding time for unpreserved samples; therefore, no validation action was required on this basis.

Note that samples were received by the laboratory three to four days after collection. Samples were stored in coolers, on ice, in a locked former treatment building at the site until delivery to the laboratory. No validation actions were required on this basis since the samples were kept on ice prior to delivery to the laboratory and were received on ice by the laboratory.

GC/MS Tunes

The frequency and abundance of all bromofluorobenzene tunes were within the acceptance criteria.

Initial and Continuing Calibrations

The percent relative standard deviations, coefficients of determination, and relative response factors (RRFs) were within the laboratory acceptance criteria in the initial calibrations.

All RRFs were within the acceptance criteria in the continuing calibrations (CCs). The following table summarizes the percent differences or percent drifts (%Ds) which were outside of the laboratory acceptance criteria in the CCs, the associated samples and validation actions.

CC	Analyte	%D	Associated Sample(s)	Validation Actions
40MSV8 10/05/22 @06:55	Bromomethane	-34.6589	TB-001 (09/29/22), GR-14, GR-16, GR-63, GR-64, GR-66	The nondetect results for the listed VOCs were qualified as estimated (UJ) in the associated samples.
	Carbon tetrachloride	-20.0497		
	2-Hexanone	27.5267	GR-26, GR-30, GR-60R, GR-73, GR-74, GR-FDUP-001	
	4-Methyl-2-pentanone (MIBK)	29.5451	GR-8, GR-9, GR-10, GR-11, GR-12, GR-62, GR-65, GR-FDUP-002	
1,1,2,2-Tetrachloroethane	21.8729			
40MSVC 10/06/22 @15:59	Bromomethane	21.5875	TB-001 (09/30/22)	The nondetect result for the listed VOC was qualified as estimated (UJ) in the associated sample.

Blanks

A method blank was analyzed each day prior to sample analysis. Target analytes were not detected in the trip blanks or method blanks.

Surrogate Spike Recoveries

The percent recoveries (%Rs) of the surrogates were within the laboratory acceptance criteria for all samples.

MS/MSD Results

MS/MSD analyses were performed on sample GR-26 in laboratory project number 40252422. The relative percent differences (RPDs) were within the acceptance criteria. The %Rs met the acceptance criteria in the MS/MSD analyses with the exception shown in the table below.

Sample ID	Compound	MS %R	MSD %R	%R QC Limits	Validation Action
GR-26	Carbon disulfide	-	64	70-130	The nondetect result for carbon disulfide was qualified as estimated (UJ) in sample GR-26.
-: Met Criteria					

Note that the laboratory only spiked a subset of the VOCs which were reported in the samples in the MS/MSDs; thus, accuracy and precision could not be evaluated for the following VOCs (which were not spiked) in the MS/MSD analyses: acetone, 2-butanone, 2-hexanone, and 4-methyl-2-pentanone. No validation action was taken on this basis.

LCS Results

An LCS was performed on each day of analysis. Spike %R criteria were met for all LCS analyses with the exceptions shown in the table below.

LCS ID	Compound	%R	%R QC Limits	Validation Action
2462604LCS	Chloromethane	131	55-122	No qualification was required since chloromethane was nondetect in the associated samples.
Associated Samples: TB-001 (09/29/22), GR-14, GR-16, GR-63, GR-64, GR-66, GR-26, GR-30, GR-60R, GR-73, GR-74, GR-FDUP-001, GR-8, GR-9, GR-10, GR-11, GR-12, GR-62, GR-65, GR-FDUP-002				
2463363LCS	Chloromethane	131	55-122	No qualification was required since chloromethane was nondetect in the associated sample.
Associated Sample: TB-001 (09/30/22)				

Note that the laboratory only spiked a subset of the VOCs that were reported in the samples in the LCS. Thus, accuracy could not be evaluated for the following VOCs (which were not spiked) in the LCS analyses: acetone, 2-butanone, 2-hexanone, and 4-methyl-2-pentanone. No validation action was taken on this basis.

Internal Standard Performance

Internal standards were within the method acceptance criteria in all sample analyses.

Field Duplicate Results

The following samples were submitted as the field duplicate pairs with this data set:

- GR-73 and GR-FDUP-001 (Laboratory Project Number 40252422)
- GR-62 and GR-FDUP-002 (Laboratory Project Number 40252423)

All target analytes were nondetect in both samples of each field duplicate pair; therefore, all criteria were met.

Quantitation Limits and Sample Results

Sample calculations were spot-checked; there were no errors noted. No dilutions were performed in the VOC analyses of these samples.

Select results were reported which were below the lowest calibration standard level and QL (or limit of quantitation [LOQ]). These results were qualified as estimated (J) by the laboratory.

The laboratory's limit of detection (LOD) for select VOCs was above one or both of the project action limits specified in the QAPP; the affected VOCs, project action limits, and current laboratory LODs are summarized in the table below.

Analyte	Affected Samples	WAC Chapter NR 140 PAL (µg/L)	WAC Chapter NR 140 ES (µg/L)	Laboratory LOD (µg/L)
1,1,2,2-Tetrachloroethane	All samples in this data set	0.02	0.2	0.38
Bromodichloromethane		0.06	0.6*	0.42
Bromoform		0.44	4.4*	3.8
Bromomethane		1	10*	1.2
Chloroform		0.6	6*	1.2
cis-1,3-Dichloropropene		0.02	0.2	0.36
trans-1,3-Dichloropropene		0.02	0.2	3.5
Vinyl chloride		0.02	0.2*	0.17

* Laboratory LOD is below the action limit.

Target Compound Identification

All criteria were met.

QUALIFIED FORM 1s

ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252421

Sample: GR-63 **Lab ID: 40252421001** Collected: 09/29/22 17:24 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 10:59	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 10:59	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 10:59	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 10:59	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 10:59	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 10:59	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 10:59	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 10:59	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 10:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 10:59	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 10:59	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 10:59	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 10:59	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 10:59	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 10:59	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 10:59	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 10:59	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 10:59	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 10:59	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 10:59	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 10:59	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 10:59	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 10:59	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 10:59	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 10:59	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 10:59	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 10:59	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 10:59	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 10:59	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 10:59	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 10:59	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 10:59	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 10:59	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 10:59	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		10/05/22 10:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/05/22 10:59	2199-69-1	
Toluene-d8 (S)	113	%	70-130		1		10/05/22 10:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252421

Sample: GR-64 **Lab ID: 40252421002** Collected: 09/29/22 17:58 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 11:19	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 11:19	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 11:19	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 11:19	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 11:19	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 11:19	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 11:19	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 11:19	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 11:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 11:19	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 11:19	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 11:19	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 11:19	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 11:19	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 11:19	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 11:19	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 11:19	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 11:19	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 11:19	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 11:19	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 11:19	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 11:19	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 11:19	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 11:19	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 11:19	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 11:19	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 11:19	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 11:19	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 11:19	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 11:19	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 11:19	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 11:19	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 11:19	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 11:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	70-130		1		10/05/22 11:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/05/22 11:19	2199-69-1	
Toluene-d8 (S)	111	%	70-130		1		10/05/22 11:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252421

Sample: GR-66 **Lab ID: 40252421003** Collected: 09/29/22 18:30 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 11:38	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 11:38	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 11:38	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 11:38	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 11:38	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 11:38	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 11:38	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 11:38	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 11:38	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 11:38	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 11:38	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 11:38	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 11:38	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 11:38	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 11:38	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 11:38	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 11:38	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 11:38	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 11:38	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 11:38	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 11:38	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 11:38	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 11:38	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 11:38	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 11:38	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 11:38	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 11:38	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 11:38	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 11:38	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 11:38	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 11:38	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 11:38	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 11:38	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 11:38	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	115	%	70-130		1		10/05/22 11:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/05/22 11:38	2199-69-1	
Toluene-d8 (S)	112	%	70-130		1		10/05/22 11:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252421

Sample: GR-14 **Lab ID: 40252421004** Collected: 09/29/22 19:13 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 11:58	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 11:58	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 11:58	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 11:58	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 11:58	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 11:58	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 11:58	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 11:58	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 11:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 11:58	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 11:58	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 11:58	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 11:58	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 11:58	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 11:58	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 11:58	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 11:58	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 11:58	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 11:58	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 11:58	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 11:58	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 11:58	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 11:58	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 11:58	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 11:58	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 11:58	127-18-4	
Toluene	0.75J	ug/L	1.0	0.29	1		10/05/22 11:58	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 11:58	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 11:58	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 11:58	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 11:58	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 11:58	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 11:58	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 11:58	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		10/05/22 11:58	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/05/22 11:58	2199-69-1	
Toluene-d8 (S)	112	%	70-130		1		10/05/22 11:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE
Pace Project No.: 40252421

Sample: GR-16 **Lab ID: 40252421005** Collected: 09/29/22 19:38 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 12:18	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 12:18	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 12:18	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 12:18	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 12:18	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 12:18	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 12:18	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 12:18	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 12:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 12:18	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 12:18	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 12:18	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 12:18	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 12:18	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 12:18	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 12:18	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 12:18	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 12:18	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 12:18	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 12:18	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 12:18	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 12:18	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 12:18	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 12:18	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 12:18	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 12:18	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 12:18	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 12:18	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 12:18	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 12:18	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 12:18	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 12:18	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 12:18	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 12:18	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		10/05/22 12:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	95	%	70-130		1		10/05/22 12:18	2199-69-1	
Toluene-d8 (S)	111	%	70-130		1		10/05/22 12:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252421

Sample: TB-001 **Lab ID: 40252421006** Collected: 09/29/22 00:00 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 10:20	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 10:20	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 10:20	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 10:20	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 10:20	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 10:20	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 10:20	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 10:20	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 10:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 10:20	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 10:20	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 10:20	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 10:20	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 10:20	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 10:20	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 10:20	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 10:20	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 10:20	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 10:20	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 10:20	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 10:20	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 10:20	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 10:20	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 10:20	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 10:20	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 10:20	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 10:20	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 10:20	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 10:20	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 10:20	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 10:20	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 10:20	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 10:20	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 10:20	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		10/05/22 10:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		10/05/22 10:20	2199-69-1	
Toluene-d8 (S)	109	%	70-130		1		10/05/22 10:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

Sample: GR-60R Lab ID: 40252422001 Collected: 09/29/22 08:10 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 12:37	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 12:37	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 12:37	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 12:37	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 12:37	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 12:37	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 12:37	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 12:37	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 12:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 12:37	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 12:37	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 12:37	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 12:37	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 12:37	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 12:37	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 12:37	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 12:37	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 12:37	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 12:37	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 12:37	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 12:37	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 12:37	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 12:37	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 12:37	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 12:37	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 12:37	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 12:37	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 12:37	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 12:37	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 12:37	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 12:37	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 12:37	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 12:37	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 12:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	117	%	70-130		1		10/05/22 12:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/05/22 12:37	2199-69-1	
Toluene-d8 (S)	111	%	70-130		1		10/05/22 12:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

Sample: GR-26 **Lab ID: 40252422002** Collected: 09/29/22 08:57 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 10:39	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 10:39	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 10:39	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 10:39	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 10:39	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 10:39	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 10:39	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 10:39	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 10:39	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 10:39	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 10:39	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 10:39	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 10:39	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 10:39	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 10:39	74-83-9	
Carbon disulfide	<1.1 UJ	ug/L	5.0	1.1	1		10/05/22 10:39	75-15-0	M4
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 10:39	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 10:39	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 10:39	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 10:39	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 10:39	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 10:39	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 10:39	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 10:39	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 10:39	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 10:39	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 10:39	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 10:39	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 10:39	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 10:39	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 10:39	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 10:39	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 10:39	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 10:39	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	115	%	70-130		1		10/05/22 10:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/05/22 10:39	2199-69-1	
Toluene-d8 (S)	112	%	70-130		1		10/05/22 10:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

Sample: GR-73 **Lab ID: 40252422003** Collected: 09/29/22 10:05 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 12:57	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 12:57	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 12:57	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 12:57	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 12:57	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 12:57	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 12:57	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 12:57	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 12:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 12:57	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 12:57	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 12:57	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 12:57	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 12:57	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 12:57	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 12:57	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 12:57	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 12:57	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 12:57	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 12:57	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 12:57	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 12:57	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 12:57	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 12:57	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 12:57	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 12:57	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 12:57	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 12:57	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 12:57	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 12:57	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 12:57	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 12:57	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 12:57	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 12:57	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		10/05/22 12:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/05/22 12:57	2199-69-1	
Toluene-d8 (S)	110	%	70-130		1		10/05/22 12:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

Sample: GR-30 **Lab ID: 40252422004** Collected: 09/29/22 10:46 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 13:17	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 13:17	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 13:17	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 13:17	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 13:17	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 13:17	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 13:17	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 13:17	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 13:17	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 13:17	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 13:17	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 13:17	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 13:17	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 13:17	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 13:17	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 13:17	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 13:17	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 13:17	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 13:17	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 13:17	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 13:17	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 13:17	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 13:17	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 13:17	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 13:17	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 13:17	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 13:17	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 13:17	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 13:17	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 13:17	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 13:17	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 13:17	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 13:17	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 13:17	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	112	%	70-130		1		10/05/22 13:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/05/22 13:17	2199-69-1	
Toluene-d8 (S)	110	%	70-130		1		10/05/22 13:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

Sample: GR-74 **Lab ID: 40252422005** Collected: 09/29/22 11:41 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 13:37	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 13:37	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 13:37	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 13:37	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 13:37	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 13:37	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 13:37	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 13:37	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 13:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 13:37	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 13:37	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 13:37	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 13:37	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 13:37	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 13:37	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 13:37	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 13:37	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 13:37	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 13:37	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 13:37	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 13:37	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 13:37	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 13:37	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 13:37	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 13:37	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 13:37	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 13:37	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 13:37	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 13:37	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 13:37	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 13:37	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 13:37	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 13:37	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 13:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	112	%	70-130		1		10/05/22 13:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		10/05/22 13:37	2199-69-1	
Toluene-d8 (S)	113	%	70-130		1		10/05/22 13:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

Sample: GR-FDUP-001 **Lab ID: 40252422006** Collected: 09/29/22 00:00 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 13:57	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 13:57	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 13:57	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 13:57	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 13:57	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 13:57	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 13:57	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 13:57	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 13:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 13:57	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 13:57	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 13:57	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 13:57	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 13:57	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 13:57	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 13:57	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 13:57	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 13:57	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 13:57	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 13:57	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 13:57	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 13:57	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 13:57	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 13:57	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 13:57	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 13:57	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 13:57	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 13:57	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 13:57	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 13:57	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 13:57	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 13:57	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 13:57	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 13:57	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		10/05/22 13:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		10/05/22 13:57	2199-69-1	
Toluene-d8 (S)	110	%	70-130		1		10/05/22 13:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252423

Sample: GR-65 **Lab ID: 40252423001** Collected: 09/30/22 14:12 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 14:16	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 14:16	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 14:16	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 14:16	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 14:16	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 14:16	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 14:16	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 14:16	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 14:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 14:16	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 14:16	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 14:16	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 14:16	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 14:16	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 14:16	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 14:16	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 14:16	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 14:16	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 14:16	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 14:16	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 14:16	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 14:16	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 14:16	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 14:16	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 14:16	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 14:16	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 14:16	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 14:16	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 14:16	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 14:16	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 14:16	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 14:16	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 14:16	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 14:16	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	115	%	70-130		1		10/05/22 14:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		10/05/22 14:16	2199-69-1	
Toluene-d8 (S)	110	%	70-130		1		10/05/22 14:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252423

Sample: GR-12 **Lab ID: 40252423002** Collected: 09/30/22 14:43 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 14:36	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 14:36	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 14:36	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 14:36	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 14:36	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 14:36	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 14:36	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 14:36	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 14:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 14:36	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 14:36	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 14:36	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 14:36	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 14:36	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 14:36	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 14:36	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 14:36	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 14:36	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 14:36	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 14:36	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 14:36	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 14:36	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 14:36	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 14:36	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 14:36	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 14:36	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 14:36	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 14:36	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 14:36	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 14:36	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 14:36	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 14:36	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 14:36	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 14:36	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	115	%	70-130		1		10/05/22 14:36	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/05/22 14:36	2199-69-1	
Toluene-d8 (S)	111	%	70-130		1		10/05/22 14:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252423

Sample: GR-10 **Lab ID: 40252423003** Collected: 09/30/22 15:18 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 14:55	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 14:55	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 14:55	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 14:55	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 14:55	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 14:55	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 14:55	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 14:55	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 14:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 14:55	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 14:55	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 14:55	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 14:55	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 14:55	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 14:55	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 14:55	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 14:55	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 14:55	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 14:55	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 14:55	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 14:55	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 14:55	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 14:55	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 14:55	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 14:55	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 14:55	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 14:55	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 14:55	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 14:55	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 14:55	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 14:55	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 14:55	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 14:55	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 14:55	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	111	%	70-130		1		10/05/22 14:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/05/22 14:55	2199-69-1	
Toluene-d8 (S)	108	%	70-130		1		10/05/22 14:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252423

Sample: GR-62 **Lab ID: 40252423004** Collected: 09/30/22 16:10 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 15:54	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 15:54	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 15:54	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 15:54	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 15:54	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 15:54	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 15:54	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 15:54	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 15:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 15:54	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 15:54	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 15:54	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 15:54	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 15:54	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 15:54	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 15:54	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 15:54	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 15:54	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 15:54	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 15:54	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 15:54	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 15:54	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 15:54	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 15:54	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 15:54	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 15:54	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 15:54	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 15:54	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 15:54	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 15:54	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 15:54	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 15:54	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 15:54	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 15:54	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		10/05/22 15:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/05/22 15:54	2199-69-1	
Toluene-d8 (S)	110	%	70-130		1		10/05/22 15:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252423

Sample: GR-9 **Lab ID: 40252423005** Collected: 09/30/22 16:41 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 16:53	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 16:53	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 16:53	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 16:53	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 16:53	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 16:53	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 16:53	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 16:53	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 16:53	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 16:53	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 16:53	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 16:53	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 16:53	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 16:53	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 16:53	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 16:53	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 16:53	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 16:53	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 16:53	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 16:53	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 16:53	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 16:53	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 16:53	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 16:53	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 16:53	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 16:53	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 16:53	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 16:53	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 16:53	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 16:53	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 16:53	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 16:53	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 16:53	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 16:53	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	118	%	70-130		1		10/05/22 16:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/05/22 16:53	2199-69-1	
Toluene-d8 (S)	109	%	70-130		1		10/05/22 16:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE
Pace Project No.: 40252423

Sample: GR-8 **Lab ID: 40252423006** Collected: 09/30/22 17:15 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 17:13	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 17:13	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 17:13	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 17:13	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 17:13	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 17:13	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 17:13	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 17:13	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 17:13	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 17:13	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 17:13	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 17:13	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 17:13	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 17:13	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 17:13	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 17:13	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 17:13	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 17:13	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 17:13	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 17:13	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 17:13	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 17:13	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 17:13	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 17:13	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 17:13	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 17:13	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 17:13	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 17:13	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 17:13	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 17:13	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 17:13	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 17:13	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 17:13	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 17:13	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	116	%	70-130		1		10/05/22 17:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/05/22 17:13	2199-69-1	
Toluene-d8 (S)	109	%	70-130		1		10/05/22 17:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252423

Sample: GR-11 **Lab ID: 40252423007** Collected: 09/30/22 17:57 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 17:33	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 17:33	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 17:33	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 17:33	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 17:33	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 17:33	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 17:33	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 17:33	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 17:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 17:33	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 17:33	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 17:33	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 17:33	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 17:33	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 17:33	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 17:33	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 17:33	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 17:33	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 17:33	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 17:33	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 17:33	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 17:33	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 17:33	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 17:33	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 17:33	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 17:33	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 17:33	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 17:33	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 17:33	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 17:33	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 17:33	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 17:33	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 17:33	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 17:33	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	116	%	70-130		1		10/05/22 17:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/05/22 17:33	2199-69-1	
Toluene-d8 (S)	111	%	70-130		1		10/05/22 17:33	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE
Pace Project No.: 40252423

Sample: GR-FDUP-002 **Lab ID: 40252423008** Collected: 09/30/22 00:00 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 17:52	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38 UJ	ug/L	1.0	0.38	1		10/05/22 17:52	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 17:52	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 17:52	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 17:52	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 17:52	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 17:52	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 17:52	78-93-3	
2-Hexanone	<6.3 UJ	ug/L	25.0	6.3	1		10/05/22 17:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0 UJ	ug/L	25.0	6.0	1		10/05/22 17:52	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 17:52	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 17:52	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 17:52	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 17:52	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/05/22 17:52	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 17:52	75-15-0	
Carbon tetrachloride	<0.37 UJ	ug/L	1.0	0.37	1		10/05/22 17:52	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 17:52	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 17:52	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 17:52	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 17:52	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 17:52	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 17:52	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 17:52	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 17:52	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 17:52	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 17:52	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 17:52	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 17:52	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 17:52	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 17:52	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 17:52	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 17:52	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 17:52	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	70-130		1		10/05/22 17:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/05/22 17:52	2199-69-1	
Toluene-d8 (S)	109	%	70-130		1		10/05/22 17:52	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252423

Sample: TB-001 **Lab ID: 40252423009** Collected: 09/30/22 00:00 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/06/22 17:59	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/06/22 17:59	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/06/22 17:59	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/06/22 17:59	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/06/22 17:59	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/06/22 17:59	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/06/22 17:59	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/06/22 17:59	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/06/22 17:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/06/22 17:59	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/06/22 17:59	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/06/22 17:59	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/06/22 17:59	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/06/22 17:59	75-25-2	
Bromomethane	<1.2 UJ	ug/L	5.0	1.2	1		10/06/22 17:59	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/06/22 17:59	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/06/22 17:59	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/06/22 17:59	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/06/22 17:59	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/06/22 17:59	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/06/22 17:59	74-87-3	L4
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/06/22 17:59	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/06/22 17:59	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/06/22 17:59	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/06/22 17:59	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/06/22 17:59	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/06/22 17:59	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/06/22 17:59	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/06/22 17:59	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/06/22 17:59	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/06/22 17:59	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/06/22 17:59	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/06/22 17:59	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/06/22 17:59	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/06/22 17:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/06/22 17:59	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		10/06/22 17:59	2037-26-5	

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Memorandum

To: Meredith Westover

From: David DiGena-Segal (Data Reviewer)
Elizabeth Denly (Peer Reviewer)

Date: January 11, 2023

Subject: Data Validation Report
VOC Groundwater Samples/Sentinel Wells: 3rd Quarter 2022
Lemberger Landfill and Lemberger Transport and Recycling/Franklin, Wisconsin
Laboratory Project Number 40252499

SUMMARY

Full validation (level IV) was performed on the data for 6 groundwater samples, one field duplicate, one trip blank, and one field blank collected from sentinel wells at the Lemberger Landfill and Lemberger Transport and Recycling Site in Franklin, Wisconsin. The samples were collected on September 29 and 30, 2022. Samples were submitted to Pace Analytical Services, LLC in Green Bay, Wisconsin for analysis. The samples were analyzed for volatile organic compounds (VOCs) using SW-846 Method 8260B. The laboratory reported the results under laboratory project number 40252499.

The sample results were assessed using the *USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-20-005)*, November 2020 and the project-specific quality assurance project plan (QAPP), dated September 2011, Revision 1.

In general, the data are valid as reported and may be used for decision-making purposes. The following issues were noted which have a minor impact on the data usability:

- Select results were reported which were below the lowest calibration standard and quantitation limit (QL); these results were qualified as estimated (J).
- Potential uncertainty exists for the 1,1-dichloroethane result in sample RM-401XXD due to MS/MSD variability. This result was qualified as estimated (J).

SAMPLES

Samples included in this review are listed below.

- RM-002D
- RM-210D
- FDUP-001¹
- RM-003D
- RM-401XXD
- FB-001
- RM-003XXD
- RM-403XD
- TB-001

¹ Field duplicate of RM-003XXD

REVIEW ELEMENTS

Sample data were reviewed for the following parameters:

- Agreement of analyses conducted with chain-of-custody (COC) requests
- Data completeness
- Holding times and sample preservation
- Gas chromatography/mass spectrometry (GC/MS) tunes
- Initial and continuing calibrations
- Blanks
- Surrogate spike recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) results
- Laboratory control sample (LCS) results
- Internal standard performance
- Field duplicate results
- Quantitation limits (QLs) and sample results
- Target compound identification

DISCUSSION

Agreement of Analyses Conducted with Chain-of-Custody Requests

Sample reports were checked to verify that the results corresponded to analytical requests as designated on the COC. No issues were noted.

Data Completeness

The data packages were found to be complete as received from the laboratory with the following exception.

- The laboratory only spiked a subset of the VOCs which were reported in the samples in the LCS and MS/MSDs. Thus, accuracy and/or precision could not be evaluated for select VOCs. No validation actions were taken on the basis of this issue.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met

Note that samples were received by the laboratory four to five days after collection. Samples were stored in coolers, on ice, in a locked former treatment building at the site until delivery to the laboratory. No validation actions were required on this basis since the samples were kept on ice prior to delivery to the laboratory and were received on ice by the laboratory.

GC/MS Tunes

The frequency and abundance of all bromofluorobenzene tunes were within the acceptance criteria.

Initial and Continuing Calibrations

The percent relative standard deviations, coefficients of determination, and relative response factors (RRFs) were within the laboratory acceptance criteria in the initial calibrations.

All RRFs and percent differences or percent drifts were within the acceptance criteria in the continuing calibrations.

Blanks

A method blank was analyzed each day prior to sample analysis. Target analytes were not detected in the trip blank or method blanks. The following table summarizes the compound that was detected in the field blank and the resulting validation actions.

Blank ID	Compound	Blank Concentration (µg/L)	2x Blank Concentration (µg/L)	QL (µg/L)	Validation Action
FB-001	Toluene	1.1	2.2	1.0	Qualification was not required since toluene was nondetect in the associated samples.
Associated samples: All samples in SDG 40252499					

Surrogate Spike Recoveries

The percent recoveries (%Rs) of the surrogates were within the laboratory acceptance criteria for all samples.

MS/MSD Results

MS/MSD analyses were performed on sample RM-401XXD. The %Rs were within the acceptance criteria. The relative percent differences (RPDs) met the acceptance criteria in the MS/MSD analyses with the exception shown in the table below.

Sample ID	Compound	RPD	RPD QC Limits	Validation Action
RM-401XXD	1,1-Dichloroethane	26	20	The positive result for 1,1-dichloroethane was qualified as estimated (J) in sample RM-401XXD.

Note that the laboratory only spiked a subset of the VOCs which were reported in the samples in the MS/MSDs; thus, accuracy and precision could not be evaluated for the following VOCs (which were not spiked) in the MS/MSD analyses: acetone, 2-butanone, 2-hexanone, and 4-methyl-2-pentanone. No validation action was taken on this basis.

LCS Results

An LCS was performed on each day of analysis. Spike %R criteria were met for all LCS analyses with the exception shown in the table below.

LCS ID	Compound	%R	%R QC Limits	Validation Action
2463777LCS	Chloromethane	131	51-122	No qualification was required since chloromethane was nondetect in the associated samples.
Associated samples: FB-001, TB-001				

Note that the laboratory only spiked a subset of the VOCs that were reported in the samples in the LCS. Thus, accuracy could not be evaluated for the following VOCs (which were not spiked) in the LCS analyses: acetone, 2-butanone, 2-hexanone, and 4-methyl-2-pentanone. No validation action was taken on this basis.

Internal Standard Performance

Internal standards were within the method acceptance criteria in all sample analyses.

Field Duplicate Results

The following samples were submitted as the field duplicate pair with this data set:

- RM-003XXD and FDUP-001

The duplicate RPD is not applicable for comparison of results if either concentration is <5x the QL; comparison in this case is based on the absolute difference (AbsD) between the results. The acceptance limits for field duplicates in aqueous media is $\leq 30\%$ for the RPD (where appropriate) and <QL for the AbsD. For analytes that are detected in one sample and nondetect in the other, the QL is used to represent the nondetect result in the AbsD calculation. The following table summarizes the detected results, the RPD or AbsD values (as applicable) for the detected analytes in each field duplicate pair, and the resulting validation actions. As shown in the table, criteria were met for all detected analytes.

Analyte	QL (µg/L)	RM-003XXD (µg/L)	FDUP-001 (µg/L)	RPD (%) or AbsD (µg/L)	Validation Actions
1,1-Dichloroethane	1.0	3.5	3.4	AbsD: 0.1	None. All criteria were met.
1,1-Dichloroethene	1.0	0.76 J	0.63 J	AbsD: 0.13	
cis-1,2-Dichloroethene	1.0	1.3	1.5	AbsD: 0.2	
1,1,1-Trichloroethane	1.0	6.0	6.4	AbsD: 0.4	
Trichloroethene	1.0	1.8	1.9	AbsD: 0.1	
Criteria: RPD $\leq 30\%$; AbsD < QL					

Quantitation Limits and Sample Results

Sample calculations were spot-checked; there were no errors noted. No dilutions were performed in the VOC analyses of these samples.

Select results were reported which were below the lowest calibration standard level and QL (or limit of quantitation [LOQ]). These results were qualified as estimated (J) by the laboratory.

The laboratory's limit of detection (LOD) for select VOCs was above one or both of the project action limits specified in the QAPP; the affected VOCs, project action limits, and current laboratory LODs are summarized in the table below.

Analyte	Affected Samples	WAC Chapter NR 140 PAL (µg/L)	WAC Chapter NR 140 ES (µg/L)	Laboratory LOD (µg/L)
1,1,2,2-Tetrachloroethane	All samples in this data set	0.02	0.2	0.38
Bromodichloromethane		0.06	0.6*	0.42
Bromoform		0.44	4.4*	3.8
Bromomethane		1	10*	1.2
Chloroform		0.6	6*	1.2
cis-1,3-Dichloropropene		0.02	0.2	0.36
trans-1,3-Dichloropropene		0.02	0.2	3.5
Vinyl chloride		0.02	0.2*	0.17
* Laboratory LOD is below the action limit.				

Target Compound Identification

All criteria were met.

QUALIFIED FORM 1s

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-401XXD

Lab Name: Pace Analytical - Green Bay
Date Received: 10/04/2022 07:30
Date Extracted: 10/07/2022 11:03
Date Analyzed: 10/07/2022 11:03
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER
Matrix: Water SDG No.: 40252499
Lab Sample ID: 40252499001
Lab File ID: 10072022.B\10072215.D
Instrument: 40MSV8 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	2.2	J
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	1.2	
156-59-2	cis-1,2-Dichloroethene	3.0	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	2.8	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	0.75	J
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

10/18/2022 3:47

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-403XD

Lab Name: Pace Analytical - Green Bay
Date Received: 10/04/2022 07:30
Date Extracted: 10/07/2022 13:01
Date Analyzed: 10/07/2022 13:01
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER
Matrix: Water SDG No.: 40252499
Lab Sample ID: 40252499002
Lab File ID: 10072022.B\10072221.D
Instrument: 40MSV8 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	59.5	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	8.0	
156-59-2	cis-1,2-Dichloroethene	17.3	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	1.3	
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	96.9	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	17.4	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

10/18/2022 3:47

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-003D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/04/2022 07:30
Date Extracted: 10/07/2022 11:23
Date Analyzed: 10/07/2022 11:23
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER
Matrix: Water SDG No.: 40252499
Lab Sample ID: 40252499003
Lab File ID: 10072022.B\10072216.D
Instrument: 40MSV8 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	9.9	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	1.4	
156-59-2	cis-1,2-Dichloroethene	3.3	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	17.0	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	2.7	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

10/18/2022 3:47

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-003XXD

Lab Name: Pace Analytical - Green Bay
 Date Received: 10/04/2022 07:30
 Date Extracted: 10/07/2022 11:42
 Date Analyzed: 10/07/2022 11:42
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER
 Matrix: Water SDG No.: 40252499
 Lab Sample ID: 40252499004
 Lab File ID: 10072022.B\10072217.D
 Instrument: 40MSV8 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	3.5	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	0.76	J
156-59-2	cis-1,2-Dichloroethene	1.3	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	6.0	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	1.8	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

10/18/2022 3:47

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-002D

Lab Name: Pace Analytical - Green Bay
 Date Received: 10/04/2022 07:30
 Date Extracted: 10/07/2022 12:02
 Date Analyzed: 10/07/2022 12:02
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER
 Matrix: Water SDG No.: 40252499
 Lab Sample ID: 40252499005
 Lab File ID: 10072022.B\10072218.D
 Instrument: 40MSV8 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	4.1	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	0.74	J
156-59-2	cis-1,2-Dichloroethene	1.0	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	5.6	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	1.6	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

10/18/2022 3:47

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RM-210D

Lab Name: Pace Analytical - Green Bay
Date Received: 10/04/2022 07:30
Date Extracted: 10/07/2022 12:21
Date Analyzed: 10/07/2022 12:21
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER
Matrix: Water SDG No.: 40252499
Lab Sample ID: 40252499006
Lab File ID: 10072022.B\10072219.D
Instrument: 40MSV8 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	3.7	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	0.83	J
156-59-2	cis-1,2-Dichloroethene	2.0	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	6.9	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	1.3	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

10/18/2022 3:47

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FDUP-001

Lab Name: Pace Analytical - Green Bay
Date Received: 10/04/2022 07:30
Date Extracted: 10/07/2022 12:41
Date Analyzed: 10/07/2022 12:41
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER
Matrix: Water SDG No.: 40252499
Lab Sample ID: 40252499007
Lab File ID: 10072022.B\10072220.D
Instrument: 40MSV8 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	3.4	
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	0.63	J
156-59-2	cis-1,2-Dichloroethene	1.5	
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	6.4	
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	1.9	
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

10/18/2022 3:47

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FB-001

Lab Name: Pace Analytical - Green Bay
 Date Received: 10/04/2022 07:30
 Date Extracted: 10/06/2022 10:39
 Date Analyzed: 10/06/2022 10:39
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER
 Matrix: Water SDG No.: 40252499
 Lab Sample ID: 40252499008
 Lab File ID: 10062022.B\10062215.D
 Instrument: 40MSVC Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	<0.30	U
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	1.1	
71-55-6	1,1,1-Trichloroethane	<0.30	U
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	<0.32	U
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

10/18/2022 3:47

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-001

Lab Name: Pace Analytical - Green Bay
Date Received: 10/04/2022 07:30
Date Extracted: 10/06/2022 10:56
Date Analyzed: 10/06/2022 10:56
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000PH4 LEMBERGER
Matrix: Water SDG No.: 40252499
Lab Sample ID: 40252499009
Lab File ID: 10062022.B\10062216.D
Instrument: 40MSVC Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<8.6	U
71-43-2	Benzene	<0.30	U
75-27-4	Bromodichloromethane	<0.42	U
75-25-2	Bromoform	<3.8	U
74-83-9	Bromomethane	<1.2	U
78-93-3	2-Butanone (MEK)	<6.5	U
75-15-0	Carbon disulfide	<1.1	U
56-23-5	Carbon tetrachloride	<0.37	U
108-90-7	Chlorobenzene	<0.86	U
75-00-3	Chloroethane	<1.4	U
67-66-3	Chloroform	<1.2	U
74-87-3	Chloromethane	<1.6	U
124-48-1	Dibromochloromethane	<2.6	U
75-34-3	1,1-Dichloroethane	<0.30	U
107-06-2	1,2-Dichloroethane	<0.29	U
75-35-4	1,1-Dichloroethene	<0.58	U
156-59-2	cis-1,2-Dichloroethene	<0.47	U
156-60-5	trans-1,2-Dichloroethene	<0.53	U
78-87-5	1,2-Dichloropropane	<0.45	U
10061-01-5	cis-1,3-Dichloropropene	<0.36	U
10061-02-6	trans-1,3-Dichloropropene	<3.5	U
100-41-4	Ethylbenzene	<0.33	U
591-78-6	2-Hexanone	<6.3	U
75-09-2	Methylene Chloride	<0.32	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<6.0	U
100-42-5	Styrene	<0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	<0.38	U
127-18-4	Tetrachloroethene	<0.41	U
108-88-3	Toluene	<0.29	U
71-55-6	1,1,1-Trichloroethane	<0.30	U
79-00-5	1,1,2-Trichloroethane	<0.34	U
79-01-6	Trichloroethene	<0.32	U
75-01-4	Vinyl chloride	<0.17	U
1330-20-7	Xylene (Total)	<1.0	U

10/18/2022 3:47

Attachment 2

Table of Wisconsin Administrative Code Chapter NR 140 Groundwater Quality Standards (Enforcement Standards [ESs], Preventive Action Limits [PALs], Maximum Contaminant Levels [MCLs], and Secondary Maximum Contaminant Levels [SMCLs]) for the Pertinent Parameters

**Attachment 2
Groundwater Quality Standards**

Parameter Name	Units	MCL	SMCL	NR PAL	NR ES
1,1,1,2-Tetrachloroethane	µg/L			7	70
1,1,1-Trichloroethane	µg/L	200		40	200
1,1,2-Trichloroethane	µg/L	5		0.5	5
1,1-Dichloroethane	µg/L			85	850
1,1-Dichloroethene	µg/L	7		0.7	7
1,2,3-Trichloropropane	µg/L			12	60
1,2,4-Trichlorobenzene	µg/L	70		14	70
1,2-Dichlorobenzene	µg/L	600		60	600
1,2-Dichloroethane	µg/L	5		0.5	5
1,2-Dichloropropane	µg/L	5		0.5	5
1,4-Dichlorobenzene	µg/L	75		15	75
2,3,7,8-TCDD	ng/L	0.03		0.003	0.03
Alpha-chlordane	µg/L	2		0.2	2
Anthracene	µg/L			600	3000
Antimony, dissolved	µg/L	6		1.2	6
Antimony, total	µg/L	6		1.2	6
Aroclor-1016	µg/L	0.5		0.003	0.03
Aroclor-1221	µg/L	0.5		0.003	0.03
Aroclor-1232	µg/L	0.5		0.003	0.03
Aroclor-1242	µg/L	0.5		0.003	0.03
Aroclor-1248	µg/L	0.5		0.003	0.03
Aroclor-1254	µg/L	0.5		0.003	0.03
Aroclor-1260	µg/L	0.5		0.003	0.03
Arsenic, dissolved	µg/L	10		1	10
Arsenic, total	µg/L	10		1	10
Barium, dissolved	µg/L	2000		400	2000
Barium, total	µg/L	2000		400	2000
Bentazon	µg/L			60	300
Benzene	µg/L	5		0.5	5
Benzo(a)pyrene	µg/L	0.2		0.02	0.2
Benzo(b)fluoranthene	µg/L			0.02	0.2
Beryllium, dissolved	µg/L	4		0.4	4
Beryllium, total	µg/L	4		0.4	4
bis(2-ethylhexyl)Phthalate	µg/L	6		0.6	6
Cadmium, dissolved	µg/L	5		0.5	5
Cadmium, total	µg/L	5		0.5	5

**Attachment 2 (continued)
Groundwater Quality Standards**

Parameter Name	Units	MCL	SMCL	NR PAL	NR ES
Carbon disulfide	µg/L			200	1000
Carbon tetrachloride	µg/L	5		0.5	5
Chlordane, technical	µg/L	2		0.2	2
Chloride	mg/L		250	125	250
Chlorobenzene	µg/L	100		20	100
Chromium, dissolved	µg/L	100		10	100
Chromium, total	µg/L	100		10	100
Chrysene	µg/L			0.02	0.2
cis-1,2-Dichloroethene	µg/L	70		7	70
Cobalt, dissolved	µg/L			8	40
Cobalt, total	µg/L			8	40
Copper, dissolved	µg/L	1300	1000	130	1300
Copper, total	µg/L	1300	1000	130	1300
Cyanazine	µg/L			0.1	1
Cyanide, total	mg/L	0.2		0.04	0.2
Di-n-butylphthalate	µg/L			100	1000
Endrin	µg/L	2		0.4	2
Ethylbenzene	µg/L	700		140	700
Fluoranthene	µg/L			80	400
Gamma-BHC (lindane)	µg/L	0.2		0.02	0.2
Gamma-chlordane	µg/L	2		0.2	2
Heptachlor	µg/L	0.4		0.04	0.4
Heptachlor epoxide	µg/L	0.2		0.02	0.2
Hexachlorobenzene	µg/L	1		0.1	1
Hydrogen sulfide	µg/L			6	30
Iron, dissolved	µg/L		300	150	300
Iron, total	µg/L		300	150	300
Lead, dissolved	µg/L	15		1.5	15
Lead, total	µg/L	15		1.5	15
Manganese, dissolved	µg/L		50	60	300
Manganese, total	µg/L		50	60	300
Mercury, dissolved	µg/L	2		0.2	2
Mercury, total	µg/L	2		0.2	2
Methanol	µg/L			1000	5000
Methoxychlor	µg/L	40		4	40
Methylene chloride	µg/L	5		0.5	5

**Attachment 2 (continued)
Groundwater Quality Standards**

Parameter Name	Units	MCL	SMCL	NR PAL	NR ES
N-hexane	µg/L			120	600
Nickel, dissolved	µg/L			20	100
Nickel, total	µg/L			20	100
Nitrogen, ammonia	mg/L			0.97	9.7
N-nitrosodiphenylamine	µg/L			0.7	7
Pentachlorophenol	µg/L	1		0.1	1
Prometon	µg/L			20	100
Pyrene	µg/L			50	250
Pyridine	µg/L			2	10
Selenium, dissolved	µg/L	50		10	50
Selenium, total	µg/L	50		10	50
Silver, dissolved	µg/L		100	10	50
Silver, total	µg/L		100	10	50
Styrene	µg/L	100		10	100
Tetrachloroethene	µg/L	5		0.5	5
Thallium, dissolved	µg/L	2		0.4	2
Thallium, total	µg/L	2		0.4	2
Toluene	µg/L	1000		160	800
Toxaphene	µg/L	3		0.3	3
trans-1,2-Dichloroethene	µg/L	100		20	100
Trichloroethene	µg/L	5		0.5	5
Trimethylbenzenes, total	µg/L			96	480
Vanadium, dissolved	µg/L			6	30
Vanadium, total	µg/L			6	30
Vinyl chloride	µg/L	2		0.02	0.2
Xylenes, total	µg/L	10000		400	2000
Zinc, dissolved	µg/L		5000	2500	5000
Zinc, total	µg/L		5000	2500	5000

Note:

Table updated June 2022 to reflect June 2021 register #786 (WDNR) and latest USEPA MCLs.

(1) MCL, ES, and PAL apply to total PCBs.

Attachment 3

Tabular Summary of Analytical Results at Each Residential Well

**LEMBERGER LANDFILL
RESIDENTIAL WELL VOLATILE ORGANIC ANALYSIS RESULTS
SEPTEMBER 2022**

PARAMETER	UNITS	GR-08	GR-09	GR-10	GR-11	GR-12	GR-14
		9/30/2022 40252423006	9/30/2022 40252423005	9/30/2022 40252423003	9/30/2022 40252423007	9/30/2022 40252423002	9/29/2022 40252421004
1,1,1-TRICHLOROETHANE	UG/L	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.38 uj	< 0.38 uj	< 0.38 uj	< 0.38 uj	< 0.38 uj	< 0.38 uj
1,1,2-TRICHLOROETHANE	UG/L	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,1-DICHLOROETHANE	UG/L	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
1,1-DICHLOROETHENE	UG/L	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58
1,2-DICHLOROETHANE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-DICHLOROPROPANE	UG/L	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
2-BUTANONE	UG/L	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5
2-HEXANONE	UG/L	< 6.3 uj	< 6.3 uj	< 6.3 uj	< 6.3 uj	< 6.3 uj	< 6.3 uj
4-METHYL-2-PENTANONE	UG/L	< 6.0 uj	< 6.0 uj	< 6.0 uj	< 6.0 uj	< 6.0 uj	< 6.0 uj
ACETONE	UG/L	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6
BENZENE	UG/L	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
BROMODICHLOROMETHANE	UG/L	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
BROMOFORM	UG/L	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
BROMOMETHANE	UG/L	< 1.2 uj	< 1.2 uj	< 1.2 uj	< 1.2 uj	< 1.2 uj	< 1.2 uj
CARBON DISULFIDE	UG/L	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
CARBON TETRACHLORIDE	UG/L	< 0.37 uj	< 0.37 uj	< 0.37 uj	< 0.37 uj	< 0.37 uj	< 0.37 uj
CHLOROBENZENE	UG/L	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
CHLORODIBROMOMETHANE	UG/L	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
CHLOROETHANE	UG/L	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
CHLOROFORM	UG/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
CHLOROMETHANE	UG/L	< 1.6 L1	< 1.6 L1	< 1.6 L1	< 1.6 L1	< 1.6 L1	< 1.6 L1
CIS-1,2-DICHLOROETHENE	UG/L	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
ETHYLBENZENE	UG/L	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
METHYLENE CHLORIDE	UG/L	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
STYRENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
TETRACHLOROETHENE	UG/L	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
TOLUENE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	0.75 J
TRANS-1,2-DICHLOROETHENE	UG/L	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
TRANS-1,3-DICHLOROPROPENE	UG/L	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
TRICHLOROETHENE	UG/L	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
VINYL CHLORIDE	UG/L	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
XYLENE, TOTAL	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

NOTES:

Laboratory data qualifiers are included in the laboratory reports in Attachment 4. See specific laboratory report for Sample Delivery Group (SDG) definition.

Non-detect results are reported as "< Limit of Detection (LOD)"

Data Validation Qualifiers:

j = the result is estimated

u = data validation rules the result as not detected

**LEMBERGER LANDFILL
RESIDENTIAL WELL VOLATILE ORGANIC ANALYSIS RESULTS
SEPTEMBER 2022**

PARAMETER	UNITS	GR-16	GR-26	GR-30	GR-60R	GR-62	GR-62 DUP	GR-63
		9/29/2022 40252421005	9/29/2022 40252422002	9/29/2022 40252422004	9/29/2022 40252422001	9/30/2022 40252423004	9/30/2022 40252423008	9/29/2022 40252421001
1,1,1-TRICHLOROETHANE	UG/L	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.38 uj	< 0.38 uj	< 0.38 uj	< 0.38 uj	< 0.38 uj	< 0.38 uj	< 0.38 uj
1,1,2-TRICHLOROETHANE	UG/L	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,1-DICHLOROETHANE	UG/L	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
1,1-DICHLOROETHENE	UG/L	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58
1,2-DICHLOROETHANE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-DICHLOROPROPANE	UG/L	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
2-BUTANONE	UG/L	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5
2-HEXANONE	UG/L	< 6.3 uj	< 6.3 uj	< 6.3 uj	< 6.3 uj	< 6.3 uj	< 6.3 uj	< 6.3 uj
4-METHYL-2-PENTANONE	UG/L	< 6.0 uj	< 6.0 uj	< 6.0 uj	< 6.0 uj	< 6.0 uj	< 6.0 uj	< 6.0 uj
ACETONE	UG/L	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6
BENZENE	UG/L	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
BROMODICHLOROMETHANE	UG/L	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
BROMOFORM	UG/L	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
BROMOMETHANE	UG/L	< 1.2 uj	< 1.2 uj	< 1.2 uj	< 1.2 uj	< 1.2 uj	< 1.2 uj	< 1.2 uj
CARBON DISULFIDE	UG/L	< 1.1	< 1.1 M1uj	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
CARBON TETRACHLORIDE	UG/L	< 0.37 uj	< 0.37 uj	< 0.37 uj	< 0.37 uj	< 0.37 uj	< 0.37 uj	< 0.37 uj
CHLOROBENZENE	UG/L	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
CHLORODIBROMOMETHANE	UG/L	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
CHLOROETHANE	UG/L	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
CHLOROFORM	UG/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
CHLOROMETHANE	UG/L	< 1.6 L1	< 1.6 L1	< 1.6 L1	< 1.6 L1	< 1.6 L1	< 1.6 L1	< 1.6 L1
CIS-1,2-DICHLOROETHENE	UG/L	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
ETHYLBENZENE	UG/L	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
METHYLENE CHLORIDE	UG/L	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
STYRENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
TETRACHLOROETHENE	UG/L	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
TOLUENE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
TRANS-1,2-DICHLOROETHENE	UG/L	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
TRANS-1,3-DICHLOROPROPENE	UG/L	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
TRICHLOROETHENE	UG/L	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
VINYL CHLORIDE	UG/L	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
XYLENE, TOTAL	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

NOTES:

Laboratory data qualifiers are included in the laboratory reports in Attachment 4. See specific laboratory report for Sample Delivery Group (SDG) definition.

Non-detect results are reported as "< Limit of Detection (LOD)"

Data Validation Qualifiers:

j = the result is estimated

u = data validation rules the result as not detected

**LEMBERGER LANDFILL
RESIDENTIAL WELL VOLATILE ORGANIC ANALYSIS RESULTS
SEPTEMBER 2022**

PARAMETER	UNITS	GR-64	GR-65	GR-66	GR-73	GR-73 DUP	GR-74
		9/29/2022 40252421002	9/30/2022 40252423001	9/29/2022 40252421003	9/29/2022 40252422003	9/29/2022 40252422006	9/29/2022 40252422005
1,1,1-TRICHLOROETHANE	UG/L	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.38 uj	< 0.38 uj	< 0.38 uj	< 0.38 uj	< 0.38 uj	< 0.38 uj
1,1,2-TRICHLOROETHANE	UG/L	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,1-DICHLOROETHANE	UG/L	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
1,1-DICHLOROETHENE	UG/L	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58
1,2-DICHLOROETHANE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-DICHLOROPROPANE	UG/L	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
2-BUTANONE	UG/L	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5
2-HEXANONE	UG/L	< 6.3 uj	< 6.3 uj	< 6.3 uj	< 6.3 uj	< 6.3 uj	< 6.3 uj
4-METHYL-2-PENTANONE	UG/L	< 6.0 uj	< 6.0 uj	< 6.0 uj	< 6.0 uj	< 6.0 uj	< 6.0 uj
ACETONE	UG/L	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6
BENZENE	UG/L	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
BROMODICHLOROMETHANE	UG/L	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
BROMOFORM	UG/L	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
BROMOMETHANE	UG/L	< 1.2 uj	< 1.2 uj	< 1.2 uj	< 1.2 uj	< 1.2 uj	< 1.2 uj
CARBON DISULFIDE	UG/L	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
CARBON TETRACHLORIDE	UG/L	< 0.37 uj	< 0.37 uj	< 0.37 uj	< 0.37 uj	< 0.37 uj	< 0.37 uj
CHLOROBENZENE	UG/L	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
CHLORODIBROMOMETHANE	UG/L	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
CHLOROETHANE	UG/L	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
CHLOROFORM	UG/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
CHLOROMETHANE	UG/L	< 1.6 L1	< 1.6 L1	< 1.6 L1	< 1.6 L1	< 1.6 L1	< 1.6 L1
CIS-1,2-DICHLOROETHENE	UG/L	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
ETHYLBENZENE	UG/L	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
METHYLENE CHLORIDE	UG/L	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
STYRENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
TETRACHLOROETHENE	UG/L	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
TOLUENE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
TRANS-1,2-DICHLOROETHENE	UG/L	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
TRANS-1,3-DICHLOROPROPENE	UG/L	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
TRICHLOROETHENE	UG/L	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
VINYL CHLORIDE	UG/L	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
XYLENE, TOTAL	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

NOTES:

Laboratory data qualifiers are included in the laboratory reports in Attachment 4. See specific laboratory report for Sample Delivery Group (SDG) definition.

Non-detect results are reported as "< Limit of Detection (LOD)"

Data Validation Qualifiers:

j = the result is estimated

u = data validation rules the result as not detected

Attachment 4
Original Laboratory Data Sheets for Residential Wells

ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252421

Sample: GR-63 Lab ID: 40252421001 Collected: 09/29/22 17:24 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 10:59	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 10:59	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 10:59	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 10:59	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 10:59	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 10:59	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 10:59	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 10:59	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 10:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 10:59	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 10:59	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 10:59	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 10:59	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 10:59	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 10:59	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 10:59	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 10:59	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 10:59	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 10:59	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 10:59	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 10:59	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 10:59	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 10:59	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 10:59	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 10:59	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 10:59	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 10:59	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 10:59	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 10:59	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 10:59	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 10:59	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 10:59	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 10:59	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 10:59	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		10/05/22 10:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/05/22 10:59	2199-69-1	
Toluene-d8 (S)	113	%	70-130		1		10/05/22 10:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252421

Sample: GR-64 **Lab ID: 40252421002** Collected: 09/29/22 17:58 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 11:19	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 11:19	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 11:19	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 11:19	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 11:19	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 11:19	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 11:19	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 11:19	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 11:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 11:19	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 11:19	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 11:19	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 11:19	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 11:19	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 11:19	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 11:19	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 11:19	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 11:19	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 11:19	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 11:19	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 11:19	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 11:19	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 11:19	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 11:19	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 11:19	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 11:19	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 11:19	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 11:19	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 11:19	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 11:19	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 11:19	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 11:19	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 11:19	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 11:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	70-130		1		10/05/22 11:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/05/22 11:19	2199-69-1	
Toluene-d8 (S)	111	%	70-130		1		10/05/22 11:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE
Pace Project No.: 40252421

Sample: GR-66 **Lab ID: 40252421003** Collected: 09/29/22 18:30 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 11:38	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 11:38	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 11:38	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 11:38	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 11:38	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 11:38	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 11:38	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 11:38	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 11:38	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 11:38	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 11:38	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 11:38	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 11:38	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 11:38	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 11:38	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 11:38	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 11:38	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 11:38	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 11:38	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 11:38	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 11:38	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 11:38	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 11:38	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 11:38	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 11:38	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 11:38	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 11:38	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 11:38	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 11:38	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 11:38	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 11:38	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 11:38	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 11:38	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 11:38	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	115	%	70-130		1		10/05/22 11:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/05/22 11:38	2199-69-1	
Toluene-d8 (S)	112	%	70-130		1		10/05/22 11:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252421

Sample: GR-14 **Lab ID: 40252421004** Collected: 09/29/22 19:13 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 11:58	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 11:58	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 11:58	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 11:58	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 11:58	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 11:58	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 11:58	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 11:58	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 11:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 11:58	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 11:58	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 11:58	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 11:58	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 11:58	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 11:58	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 11:58	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 11:58	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 11:58	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 11:58	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 11:58	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 11:58	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 11:58	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 11:58	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 11:58	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 11:58	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 11:58	127-18-4	
Toluene	0.75J	ug/L	1.0	0.29	1		10/05/22 11:58	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 11:58	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 11:58	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 11:58	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 11:58	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 11:58	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 11:58	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 11:58	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		10/05/22 11:58	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/05/22 11:58	2199-69-1	
Toluene-d8 (S)	112	%	70-130		1		10/05/22 11:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252421

Sample: GR-16 **Lab ID: 40252421005** Collected: 09/29/22 19:38 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 12:18	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 12:18	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 12:18	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 12:18	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 12:18	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 12:18	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 12:18	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 12:18	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 12:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 12:18	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 12:18	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 12:18	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 12:18	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 12:18	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 12:18	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 12:18	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 12:18	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 12:18	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 12:18	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 12:18	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 12:18	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 12:18	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 12:18	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 12:18	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 12:18	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 12:18	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 12:18	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 12:18	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 12:18	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 12:18	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 12:18	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 12:18	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 12:18	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 12:18	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		10/05/22 12:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	95	%	70-130		1		10/05/22 12:18	2199-69-1	
Toluene-d8 (S)	111	%	70-130		1		10/05/22 12:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

Sample: GR-60R **Lab ID: 40252422001** Collected: 09/29/22 08:10 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 12:37	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 12:37	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 12:37	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 12:37	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 12:37	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 12:37	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 12:37	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 12:37	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 12:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 12:37	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 12:37	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 12:37	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 12:37	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 12:37	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 12:37	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 12:37	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 12:37	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 12:37	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 12:37	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 12:37	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 12:37	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 12:37	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 12:37	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 12:37	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 12:37	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 12:37	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 12:37	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 12:37	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 12:37	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 12:37	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 12:37	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 12:37	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 12:37	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 12:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	117	%	70-130		1		10/05/22 12:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/05/22 12:37	2199-69-1	
Toluene-d8 (S)	111	%	70-130		1		10/05/22 12:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

Sample: GR-26 **Lab ID: 40252422002** Collected: 09/29/22 08:57 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 10:39	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 10:39	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 10:39	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 10:39	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 10:39	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 10:39	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 10:39	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 10:39	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 10:39	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 10:39	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 10:39	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 10:39	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 10:39	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 10:39	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 10:39	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 10:39	75-15-0	M1
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 10:39	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 10:39	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 10:39	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 10:39	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 10:39	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 10:39	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 10:39	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 10:39	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 10:39	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 10:39	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 10:39	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 10:39	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 10:39	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 10:39	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 10:39	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 10:39	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 10:39	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 10:39	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	115	%	70-130		1		10/05/22 10:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/05/22 10:39	2199-69-1	
Toluene-d8 (S)	112	%	70-130		1		10/05/22 10:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

Sample: GR-73 **Lab ID: 40252422003** Collected: 09/29/22 10:05 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 12:57	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 12:57	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 12:57	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 12:57	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 12:57	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 12:57	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 12:57	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 12:57	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 12:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 12:57	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 12:57	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 12:57	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 12:57	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 12:57	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 12:57	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 12:57	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 12:57	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 12:57	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 12:57	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 12:57	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 12:57	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 12:57	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 12:57	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 12:57	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 12:57	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 12:57	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 12:57	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 12:57	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 12:57	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 12:57	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 12:57	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 12:57	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 12:57	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 12:57	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		10/05/22 12:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/05/22 12:57	2199-69-1	
Toluene-d8 (S)	110	%	70-130		1		10/05/22 12:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

Sample: GR-30 Lab ID: 40252422004 Collected: 09/29/22 10:46 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 13:17	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 13:17	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 13:17	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 13:17	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 13:17	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 13:17	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 13:17	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 13:17	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 13:17	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 13:17	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 13:17	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 13:17	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 13:17	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 13:17	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 13:17	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 13:17	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 13:17	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 13:17	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 13:17	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 13:17	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 13:17	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 13:17	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 13:17	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 13:17	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 13:17	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 13:17	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 13:17	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 13:17	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 13:17	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 13:17	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 13:17	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 13:17	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 13:17	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 13:17	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	112	%	70-130		1		10/05/22 13:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/05/22 13:17	2199-69-1	
Toluene-d8 (S)	110	%	70-130		1		10/05/22 13:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

Sample: GR-74 **Lab ID: 40252422005** Collected: 09/29/22 11:41 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 13:37	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 13:37	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 13:37	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 13:37	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 13:37	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 13:37	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 13:37	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 13:37	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 13:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 13:37	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 13:37	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 13:37	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 13:37	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 13:37	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 13:37	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 13:37	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 13:37	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 13:37	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 13:37	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 13:37	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 13:37	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 13:37	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 13:37	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 13:37	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 13:37	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 13:37	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 13:37	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 13:37	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 13:37	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 13:37	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 13:37	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 13:37	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 13:37	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 13:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	112	%	70-130		1		10/05/22 13:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		10/05/22 13:37	2199-69-1	
Toluene-d8 (S)	113	%	70-130		1		10/05/22 13:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

Sample: GR-FDUP-001 **Lab ID: 40252422006** Collected: 09/29/22 00:00 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 13:57	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 13:57	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 13:57	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 13:57	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 13:57	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 13:57	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 13:57	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 13:57	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 13:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 13:57	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 13:57	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 13:57	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 13:57	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 13:57	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 13:57	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 13:57	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 13:57	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 13:57	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 13:57	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 13:57	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 13:57	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 13:57	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 13:57	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 13:57	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 13:57	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 13:57	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 13:57	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 13:57	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 13:57	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 13:57	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 13:57	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 13:57	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 13:57	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 13:57	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		10/05/22 13:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		10/05/22 13:57	2199-69-1	
Toluene-d8 (S)	110	%	70-130		1		10/05/22 13:57	2037-26-5	

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QUALIFIERS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

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 - Estimated concentration at or above the LOD and below the LOQ.

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.

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 - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE
Pace Project No.: 40252423

Sample: GR-65 **Lab ID: 40252423001** Collected: 09/30/22 14:12 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 14:16	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 14:16	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 14:16	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 14:16	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 14:16	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 14:16	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 14:16	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 14:16	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 14:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 14:16	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 14:16	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 14:16	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 14:16	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 14:16	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 14:16	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 14:16	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 14:16	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 14:16	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 14:16	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 14:16	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 14:16	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 14:16	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 14:16	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 14:16	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 14:16	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 14:16	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 14:16	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 14:16	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 14:16	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 14:16	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 14:16	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 14:16	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 14:16	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 14:16	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	115	%	70-130		1		10/05/22 14:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		10/05/22 14:16	2199-69-1	
Toluene-d8 (S)	110	%	70-130		1		10/05/22 14:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252423

Sample: GR-12 **Lab ID: 40252423002** Collected: 09/30/22 14:43 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 14:36	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 14:36	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 14:36	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 14:36	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 14:36	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 14:36	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 14:36	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 14:36	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 14:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 14:36	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 14:36	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 14:36	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 14:36	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 14:36	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 14:36	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 14:36	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 14:36	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 14:36	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 14:36	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 14:36	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 14:36	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 14:36	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 14:36	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 14:36	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 14:36	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 14:36	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 14:36	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 14:36	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 14:36	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 14:36	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 14:36	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 14:36	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 14:36	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 14:36	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	115	%	70-130		1		10/05/22 14:36	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/05/22 14:36	2199-69-1	
Toluene-d8 (S)	111	%	70-130		1		10/05/22 14:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252423

Sample: GR-10 **Lab ID: 40252423003** Collected: 09/30/22 15:18 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 14:55	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 14:55	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 14:55	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 14:55	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 14:55	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 14:55	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 14:55	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 14:55	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 14:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 14:55	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 14:55	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 14:55	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 14:55	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 14:55	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 14:55	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 14:55	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 14:55	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 14:55	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 14:55	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 14:55	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 14:55	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 14:55	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 14:55	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 14:55	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 14:55	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 14:55	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 14:55	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 14:55	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 14:55	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 14:55	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 14:55	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 14:55	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 14:55	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 14:55	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	111	%	70-130		1		10/05/22 14:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/05/22 14:55	2199-69-1	
Toluene-d8 (S)	108	%	70-130		1		10/05/22 14:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252423

Sample: GR-62 Lab ID: 40252423004 Collected: 09/30/22 16:10 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 15:54	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 15:54	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 15:54	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 15:54	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 15:54	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 15:54	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 15:54	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 15:54	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 15:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 15:54	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 15:54	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 15:54	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 15:54	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 15:54	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 15:54	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 15:54	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 15:54	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 15:54	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 15:54	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 15:54	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 15:54	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 15:54	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 15:54	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 15:54	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 15:54	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 15:54	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 15:54	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 15:54	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 15:54	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 15:54	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 15:54	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 15:54	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 15:54	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 15:54	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		10/05/22 15:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/05/22 15:54	2199-69-1	
Toluene-d8 (S)	110	%	70-130		1		10/05/22 15:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252423

Sample: GR-9 **Lab ID: 40252423005** Collected: 09/30/22 16:41 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 16:53	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 16:53	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 16:53	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 16:53	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 16:53	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 16:53	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 16:53	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 16:53	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 16:53	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 16:53	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 16:53	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 16:53	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 16:53	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 16:53	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 16:53	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 16:53	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 16:53	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 16:53	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 16:53	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 16:53	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 16:53	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 16:53	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 16:53	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 16:53	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 16:53	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 16:53	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 16:53	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 16:53	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 16:53	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 16:53	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 16:53	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 16:53	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 16:53	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 16:53	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	118	%	70-130		1		10/05/22 16:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/05/22 16:53	2199-69-1	
Toluene-d8 (S)	109	%	70-130		1		10/05/22 16:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252423

Sample: GR-8 **Lab ID: 40252423006** Collected: 09/30/22 17:15 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 17:13	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 17:13	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 17:13	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 17:13	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 17:13	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 17:13	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 17:13	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 17:13	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 17:13	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 17:13	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 17:13	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 17:13	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 17:13	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 17:13	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 17:13	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 17:13	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 17:13	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 17:13	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 17:13	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 17:13	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 17:13	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 17:13	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 17:13	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 17:13	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 17:13	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 17:13	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 17:13	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 17:13	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 17:13	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 17:13	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 17:13	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 17:13	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 17:13	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 17:13	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	116	%	70-130		1		10/05/22 17:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/05/22 17:13	2199-69-1	
Toluene-d8 (S)	109	%	70-130		1		10/05/22 17:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE
Pace Project No.: 40252423

Sample: GR-11 **Lab ID: 40252423007** Collected: 09/30/22 17:57 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 17:33	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 17:33	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 17:33	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 17:33	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 17:33	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 17:33	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 17:33	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 17:33	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 17:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 17:33	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 17:33	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 17:33	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 17:33	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 17:33	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 17:33	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 17:33	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 17:33	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 17:33	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 17:33	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 17:33	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 17:33	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 17:33	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 17:33	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 17:33	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 17:33	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 17:33	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 17:33	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 17:33	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 17:33	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 17:33	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 17:33	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 17:33	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 17:33	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 17:33	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	116	%	70-130		1		10/05/22 17:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/05/22 17:33	2199-69-1	
Toluene-d8 (S)	111	%	70-130		1		10/05/22 17:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252423

Sample: GR-FDUP-002 **Lab ID: 40252423008** Collected: 09/30/22 00:00 Received: 10/03/22 06:51 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 17:52	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/05/22 17:52	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/05/22 17:52	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/05/22 17:52	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/05/22 17:52	75-35-4	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/05/22 17:52	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/05/22 17:52	78-87-5	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/05/22 17:52	78-93-3	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		10/05/22 17:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/05/22 17:52	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/05/22 17:52	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/05/22 17:52	71-43-2	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/05/22 17:52	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/05/22 17:52	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/05/22 17:52	74-83-9	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		10/05/22 17:52	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/05/22 17:52	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/05/22 17:52	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/05/22 17:52	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/05/22 17:52	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/05/22 17:52	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/05/22 17:52	124-48-1	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/05/22 17:52	100-41-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/05/22 17:52	75-09-2	
Styrene	<0.36	ug/L	1.0	0.36	1		10/05/22 17:52	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/05/22 17:52	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/05/22 17:52	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/05/22 17:52	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/05/22 17:52	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/05/22 17:52	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/05/22 17:52	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/05/22 17:52	10061-01-5	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/05/22 17:52	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/05/22 17:52	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	70-130		1		10/05/22 17:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/05/22 17:52	2199-69-1	
Toluene-d8 (S)	109	%	70-130		1		10/05/22 17:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 473040.0000PH4 LEMBERGER LF RE
Pace Project No.: 40252423

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 - Estimated concentration at or above the LOD and below the LOQ.

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.

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 - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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Attachment 5

Residential Well Location Map with Owner/Occupant Addresses

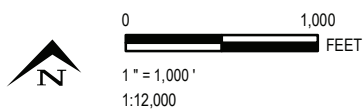


LEGEND

- SAMPLE AND MONITORING LOCATIONS
- RESIDENTIAL WELL (GR)
 - LANDFILL AREA

NOTES

1. AERIAL IMAGERY FROM MANITOWOC COUNTY, 2010.
2. MAP COORDINATES REFERENCE WISCONSIN STATE PLANE, SOUTH ZONE, NAD 83, US SURVEY FOOT.



PROJECT:			
LEMBERGER SITES TOWN OF FRANKLIN, WISCONSIN			
SHEET TITLE:			
RESIDENTIAL WELLS LOCATION MAP			
DRAWN BY:	RHODE B	SCALE:	PROJ. NO.
CHECKED BY:	WESTOVER M	AS NOTED	211761
APPROVED BY:	KRAUSE K	DATE PRINTED:	FILE NO.
DATE:	FEBRUARY 2014		211761-018.mxd
			FIGURE 1



708 Heartland Trail, Suite 3000
Madison, WI 53717
Phone: 608.826.3600
www.trcsolutions.com

RESIDENTIAL WELLS

<u>Occupant</u>	<u>Owner</u>	<u>Well #</u>	<u>DNR ID #</u>	<u>WUWN⁽¹⁾</u>
Richard Eiles 7504 Taus Road Whitelaw, WI 54247 (920) 732-3959	same	GR-8	101	BK413
Brent Ebert 7435 Taus Road Whitelaw, WI 54247 (920) 901-3561	same	GR-9	102	BK415
Jeff Wilker 7231 Taus Road Whitelaw, WI 54247 (920) 323-9361	same	GR-10	103	EZ331
Vacant, For Sale 7208 Taus Road Whitelaw, WI 54247	Dan Kalies 7206 Taus Road Whitelaw, WI 54247 (920) 732-4402	GR-11	104	BK416
John Dugan 13116 Reifs Mills Road Whitelaw, WI 54247 (920) 732-3040	same	GR-12	105	CW004
No occupant at this resident 13207 Reifs Mills Road Whitelaw, WI 54247	Gene and Lori Gauthier 1616 Holly Drive Manitowoc, WI 54220 (920) 684-8276	GR-13	106	BK381
Scott & Stephanie Jeske 13416 Reifs Mills Road Whitelaw, WI 54247 (920) 629-0666	same	GR-14	107	BK363

RESIDENTIAL WELLS (continued)

<u>Occupant</u>	<u>Owner</u>	<u>Well #</u>	<u>DNR ID #</u>	<u>WUWN⁽¹⁾</u>
Robert J. & Katharine E. Mizla 6512 River Bend Road Whitelaw, WI 54247 (240) 422-9809	same	GR-16	109	BK371
13116 Sunny Slope Road Cato, WI 54230 [no house at this address]	Ted Greif 4802 Mayerl Road Reedsville, WI 54230 (920) 901-6430	GR-26	113	AO649
Heidi Schiefelbein 5330 Hempton Lake Road Whitelaw, WI 54247 (920) 717-8727	same	GR-30	115	BK414
[no residence at this well location] ⁽²⁾ 13418 Sunny Slope Road Cato, WI 54230	Elmer & Ida Mae Knepp 20928 West Goodwin Rd Reedsville, WI 54230 (920) 905-4665	GR-60R	124	IG758
Nicholas S. & Melissa C. Nadler 7325 Taus Road Whitelaw, WI 54247 (920) 901-2954	same	GR-62	120	HL794
James Einburger 12820 Reifs Mills Road Whitelaw, WI 54247 (920) 732-3805	same	GR-63	121	DS921
Mark & Rane Thelen 12815 Reifs Mills Road Whitelaw, WI 54247 (920) 973-5307	same	GR-64	122	IE118

RESIDENTIAL WELLS (continued)

<u>Occupant</u>	<u>Owner</u>	<u>Well #</u>	<u>DNR ID #</u>	<u>WUWN⁽¹⁾</u>
Corliss & Diana Prindle 6726 River Bend Road Whitelaw, WI 54247 (920) 732-3919	same	GR-65	123	LK291
Tim Moheng 7105 Taus Road Whitelaw, WI 54247 (402) 676-3797	same	GR-66	125	RK530
John & Vicky Schmidt 13519 Sunny Slope Road Cato, WI 54230 (920) 732-4603	same	GR-72	126	KY957
Well is just south of site 200 yards on west side of Hempton Lake Rd	Bill Braun 214 N Cherry St Whitelaw WI 54247 (920) 732-4444	GR-73	127	II633
Vacant, Remodeling 6203 Ledvina Road Cato, WI 54230	Elmer & Ida Mae Knepp 20928 West Goodwin Rd Reedsville, WI 54230 (920) 905-4665	GR-74	128	XG829

Notes:

- (1) Wisconsin Unique Well Number.
- (2) Former house at this location has been demolished. A barn and shed are the only structures on the property.

Attachment 6

Tabular Summary of Analytical Results at Each Monitoring Well

**LEMBERGER LANDFILL
MONITORING WELL VOLATILE ORGANIC ANALYSIS RESULTS
SEPTEMBER/OCTOBER 2022**

PARAMETER	UNITS	OW-104F	RM-002D	RM-003D	RM-003XXD	RM-003XXD DUP	RM-005D	RM-007D
		10/28/2022 40253980001	9/30/2022 40252499005	9/30/2022 40252499003	9/30/2022 40252499004	9/30/2022 40252499007	10/28/2022 40253980002	10/28/2022 40253980004
1,1,1-TRICHLOROETHANE	UG/L	6.3	5.6	17.0	6.0	6.4	15.2	267
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.94
1,1,2-TRICHLOROETHANE	UG/L	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.86
1,1-DICHLOROETHANE	UG/L	3.0	4.1	9.9	3.5	3.4	10.8	232
1,1-DICHLOROETHENE	UG/L	1.1	0.74 J	1.4	0.76 J	0.63 J	2.3	27.7
1,2-DICHLOROETHANE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.73
1,2-DICHLOROPROPANE	UG/L	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 1.1
2-BUTANONE	UG/L	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5	< 16.3
2-HEXANONE	UG/L	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 15.7
4-METHYL-2-PENTANONE	UG/L	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 14.9
ACETONE	UG/L	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 21.6
BENZENE	UG/L	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.74
BROMODICHLOROMETHANE	UG/L	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 1.0
BROMOFORM	UG/L	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 9.5
BROMOMETHANE	UG/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 3.0
CARBON DISULFIDE	UG/L	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 2.8 uj
CARBON TETRACHLORIDE	UG/L	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.92
CHLOROBENZENE	UG/L	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 2.1
CHLORODIBROMOMETHANE	UG/L	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 6.6
CHLOROETHANE	UG/L	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 3.4
CHLOROFORM	UG/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 3.0
CHLOROMETHANE	UG/L	< 1.6 uj	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6 uj	< 4.1
CIS-1,2-DICHLOROETHENE	UG/L	2.1	1.0	3.3	1.3	1.5	6.0	82.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.90
ETHYLBENZENE	UG/L	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.81
METHYLENE CHLORIDE	UG/L	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.80
STYRENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.89
TETRACHLOROETHENE	UG/L	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	2.9
TOLUENE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.72
TRANS-1,2-DICHLOROETHENE	UG/L	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 1.3
TRANS-1,3-DICHLOROPROPENE	UG/L	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 8.7
TRICHLOROETHENE	UG/L	2.9	1.6	2.7	1.8	1.9	3.0	51.7
VINYL CHLORIDE	UG/L	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.44
XYLENE, TOTAL	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.6

NOTES:

Laboratory data qualifiers are included in the laboratory reports in Attachment 7. See specific laboratory report for Sample Delivery Group (SDG) definition.

Non-detect results are reported as "< Limit of Detection (LOD)"

Data Validation Qualifiers:

u = data validation rules result as not detected

j = the result is estimated

**LEMBERGER LANDFILL
MONITORING WELL VOLATILE ORGANIC ANALYSIS RESULTS
SEPTEMBER/OCTOBER 2022**

PARAMETER	UNITS	RM-007XD	RM-007XD DUP	RM-007XXD	RM-008D	RM-101D	RM-102D	RM-202D
		10/28/2022 40253980006	10/28/2022 40253980007	10/28/2022 40253980005	10/26/2022 40253891001	10/14/2022 40253296004	10/26/2022 40253891005	10/24/2022 40253893004
1,1,1-TRICHLOROETHANE	UG/L	223	206	< 0.30	20.1	2.0	< 0.30	< 0.30
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.38	< 0.94	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
1,1,2-TRICHLOROETHANE	UG/L	< 0.34	< 0.86	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,1-DICHLOROETHANE	UG/L	173	170	0.32 J	6.2	2.2	< 0.30	< 0.30
1,1-DICHLOROETHENE	UG/L	29.6	23.3	< 0.58	0.92 J	< 0.58	< 0.58	< 0.58
1,2-DICHLOROETHANE	UG/L	< 0.29	< 0.73	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-DICHLOROPROPANE	UG/L	< 0.45	< 1.1	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
2-BUTANONE	UG/L	< 6.5	< 16.3	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5
2-HEXANONE	UG/L	< 6.3	< 15.7	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3
4-METHYL-2-PENTANONE	UG/L	< 6.0	< 14.9	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
ACETONE	UG/L	< 8.6	< 21.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6
BENZENE	UG/L	< 0.30	< 0.74	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
BROMODICHLOROMETHANE	UG/L	< 0.42	< 1.0	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
BROMOFORM	UG/L	< 3.8	< 9.5	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
BROMOMETHANE	UG/L	< 1.2	< 3.0	< 1.2	< 1.2	< 1.2 uj	< 1.2	< 1.2
CARBON DISULFIDE	UG/L	< 1.1 uj	< 2.8 uj	< 1.1 uj	< 1.1	< 1.1	< 1.1	< 1.1
CARBON TETRACHLORIDE	UG/L	< 0.37	< 0.92	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
CHLOROBENZENE	UG/L	< 0.86	< 2.1	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
CHLORODIBROMOMETHANE	UG/L	< 2.6	< 6.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
CHLOROETHANE	UG/L	< 1.4	< 3.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
CHLOROFORM	UG/L	< 1.2	< 3.0	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
CHLOROMETHANE	UG/L	< 1.6	< 4.1	< 1.6	< 1.6 uj	< 1.6	< 1.6 uj	< 1.6
CIS-1,2-DICHLOROETHENE	UG/L	74.8	69.5	< 0.47	4.1	< 0.47	< 0.47	< 0.47
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.36	< 0.90	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
ETHYLBENZENE	UG/L	< 0.33	< 0.81	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
METHYLENE CHLORIDE	UG/L	< 0.32	< 0.80	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
STYRENE	UG/L	< 0.36	< 0.89	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
TETRACHLOROETHENE	UG/L	2.3	1.8 J	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
TOLUENE	UG/L	< 0.29	< 0.72	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
TRANS-1,2-DICHLOROETHENE	UG/L	< 0.53	1.4 J	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
TRANS-1,3-DICHLOROPROPENE	UG/L	< 3.5	< 8.7	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
TRICHLOROETHENE	UG/L	44.0	39.3	< 0.32	3.2	0.87 J	< 0.32	< 0.32
VINYL CHLORIDE	UG/L	< 0.17	< 0.44	< 0.17 M1uj	< 0.17	< 0.17	< 0.17	< 0.17
XYLENE, TOTAL	UG/L	< 1.0	< 2.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

NOTES:

Laboratory data qualifiers are included in the laboratory reports in Attachment 7. See specific laboratory report for Sample Delivery Group (SDG) definition.

Non-detect results are reported as "< Limit of Detection (LOD)"

Data Validation Qualifiers:

u = data validation rules result as not detected

j = the result is estimated

**LEMBERGER LANDFILL
MONITORING WELL VOLATILE ORGANIC ANALYSIS RESULTS
SEPTEMBER/OCTOBER 2022**

PARAMETER	UNITS	RM-203D	RM-204D	RM-208D	RM-208XD	RM-208XD DUP	RM-210D	RM-211D
		10/26/2022 40253891004	10/14/2022 40253296003	10/24/2022 40253893002	10/24/2022 40253893003	10/24/2022 40253893006	9/30/2022 40252499006	10/24/2022 40253893001
1,1,1-TRICHLOROETHANE	UG/L	0.52 J	13.2	6.8	< 0.30	< 0.30	6.9	0.70 J
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
1,1,2-TRICHLOROETHANE	UG/L	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,1-DICHLOROETHANE	UG/L	< 0.30	7.9	4.3	< 0.30	< 0.30	3.7	0.30 J
1,1-DICHLOROETHENE	UG/L	< 0.58	1.1	1.8	< 0.58	< 0.58	0.83 J	< 0.58
1,2-DICHLOROETHANE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-DICHLOROPROPANE	UG/L	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
2-BUTANONE	UG/L	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5
2-HEXANONE	UG/L	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3
4-METHYL-2-PENTANONE	UG/L	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
ACETONE	UG/L	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6
BENZENE	UG/L	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
BROMODICHLOROMETHANE	UG/L	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
BROMOFORM	UG/L	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
BROMOMETHANE	UG/L	< 1.2	< 1.2 uj	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
CARBON DISULFIDE	UG/L	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
CARBON TETRACHLORIDE	UG/L	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
CHLOROBENZENE	UG/L	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
CHLORODIBROMOMETHANE	UG/L	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
CHLOROETHANE	UG/L	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
CHLOROFORM	UG/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
CHLOROMETHANE	UG/L	< 1.6 uj	< 1.6	< 1.6 M1	< 1.6	< 1.6	< 1.6	< 1.6
CIS-1,2-DICHLOROETHENE	UG/L	< 0.47	2.1	4.6	< 0.47	< 0.47	2.0	< 0.47
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
ETHYLBENZENE	UG/L	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
METHYLENE CHLORIDE	UG/L	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
STYRENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
TETRACHLOROETHENE	UG/L	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
TOLUENE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
TRANS-1,2-DICHLOROETHENE	UG/L	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
TRANS-1,3-DICHLOROPROPENE	UG/L	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
TRICHLOROETHENE	UG/L	< 0.32	1.9	2.2	< 0.32	< 0.32	1.3	< 0.32
VINYL CHLORIDE	UG/L	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
XYLENE, TOTAL	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

NOTES:

Laboratory data qualifiers are included in the laboratory reports in Attachment 7. See specific laboratory report for Sample Delivery Group (SDG) definition.

Non-detect results are reported as "< Limit of Detection (LOD)"

Data Validation Qualifiers:

u = data validation rules result as not detected

j = the result is estimated

**LEMBERGER LANDFILL
MONITORING WELL VOLATILE ORGANIC ANALYSIS RESULTS
SEPTEMBER/OCTOBER 2022**

PARAMETER	UNITS	RM-212D	RM-213D	RM-213XD	RM-214D	RM-303D	RM-306D	RM-307D
		10/13/2022 40253296001	10/27/2022 40253980012	10/27/2022 40253980011	10/27/2022 40253980010	10/28/2022 40253980003	10/27/2022 40253980013	10/27/2022 40253980014
1,1,1-TRICHLOROETHANE	UG/L	< 0.30	2.2	10.8	7.4	295	50.9	72.1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.38	< 0.38	< 0.38	< 0.38	< 0.94	< 0.38	< 0.38
1,1,2-TRICHLOROETHANE	UG/L	< 0.34	< 0.34	< 0.34	< 0.34	< 0.86	< 0.34	< 0.34
1,1-DICHLOROETHANE	UG/L	< 0.30	< 0.30 L1	4.8 L1j+	6.1 L1j+	274	7.2 L1j+	26.8 L1j+
1,1-DICHLOROETHENE	UG/L	< 0.58	< 0.58 M1	2.3	< 0.58	12.7	3.0	3.5
1,2-DICHLOROETHANE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.73	< 0.29	< 0.29
1,2-DICHLOROPROPANE	UG/L	< 0.45	< 0.45 L1	< 0.45 L1	< 0.45 L1	< 1.1	< 0.45 L1	< 0.45 L1
2-BUTANONE	UG/L	< 6.5	< 6.5	< 6.5	< 6.5	< 16.3	< 6.5	< 6.5
2-HEXANONE	UG/L	< 6.3	< 6.3	< 6.3	< 6.3	< 15.7	< 6.3	< 6.3
4-METHYL-2-PENTANONE	UG/L	< 6.0	< 6.0 uj	< 6.0 uj	< 6.0 uj	< 14.9	< 6.0 uj	< 6.0 uj
ACETONE	UG/L	< 8.6	< 8.6	< 8.6	< 8.6	< 21.6	< 8.6	< 8.6
BENZENE	UG/L	< 0.30	< 0.30	< 0.30	< 0.30	< 0.74	< 0.30	< 0.30
BROMODICHLOROMETHANE	UG/L	< 0.42	< 0.42	< 0.42	< 0.42	< 1.0	< 0.42	< 0.42
BROMOFORM	UG/L	< 3.8	< 3.8	< 3.8	< 3.8	< 9.5	< 3.8	< 3.8
BROMOMETHANE	UG/L	< 1.2 uj	< 1.2	< 1.2	< 1.2	< 3.0	< 1.2	< 1.2
CARBON DISULFIDE	UG/L	< 1.1	< 1.1 M1	< 1.1	< 1.1	< 2.8 uj	< 1.1	< 1.1
CARBON TETRACHLORIDE	UG/L	< 0.37	< 0.37	< 0.37	< 0.37	< 0.92	< 0.37	< 0.37
CHLOROBENZENE	UG/L	< 0.86	< 0.86	< 0.86	< 0.86	< 2.1	< 0.86	< 0.86
CHLORODIBROMOMETHANE	UG/L	< 2.6	< 2.6	< 2.6	< 2.6	< 6.6	< 2.6	< 2.6
CHLOROETHANE	UG/L	< 1.4	< 1.4 uj	< 1.4 uj	< 1.4 uj	< 3.4	< 1.4 uj	< 1.4 uj
CHLOROFORM	UG/L	< 1.2	< 1.2	< 1.2	< 1.2	< 3.0	< 1.2	< 1.2
CHLOROMETHANE	UG/L	< 1.6	< 1.6	< 1.6	< 1.6	< 4.1	< 1.6	< 1.6
CIS-1,2-DICHLOROETHENE	UG/L	< 0.47	< 0.47	3.5	15.8	98.5	0.62 J	2.9
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.90	< 0.36	< 0.36
ETHYLBENZENE	UG/L	< 0.33	< 0.33	< 0.33	< 0.33	< 0.81	< 0.33	< 0.33
METHYLENE CHLORIDE	UG/L	< 0.32	< 0.32	< 0.32	< 0.32	< 0.80	< 0.32	< 0.32
STYRENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.89	< 0.36	< 0.36
TETRACHLOROETHENE	UG/L	< 0.41	< 0.41	< 0.41	< 0.41	2.8	< 0.41	0.74 J
TOLUENE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.72	< 0.29	< 0.29
TRANS-1,2-DICHLOROETHENE	UG/L	< 0.53	< 0.53	< 0.53	< 0.53	1.8 J	< 0.53	< 0.53
TRANS-1,3-DICHLOROPROPENE	UG/L	< 3.5	< 3.5	< 3.5	< 3.5	< 8.7	< 3.5	< 3.5
TRICHLOROETHENE	UG/L	< 0.32	0.54 J	2.4	2.5	86.6	4.5	9.9
VINYL CHLORIDE	UG/L	< 0.17	< 0.17	< 0.17	1.0 J	< 0.44	< 0.17	< 0.17
XYLENE, TOTAL	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 2.6	< 1.0	< 1.0

NOTES:

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Non-detect results are reported as "< Limit of Detection (LOD)"

Data Validation Qualifiers:

u = data validation rules result as not detected

j = the result is estimated

**LEMBERGER LANDFILL
MONITORING WELL VOLATILE ORGANIC ANALYSIS RESULTS
SEPTEMBER/OCTOBER 2022**

PARAMETER	UNITS	RM-401XD	RM-401XXD	RM-402XD	RM-402XXD	RM-403XD	RM-404XXD
		10/24/2022 40253893005	9/29/2022 40252499001	10/26/2022 40253891002	10/26/2022 40253891003	9/29/2022 40252499002	10/13/2022 40253296002
1,1,1-TRICHLOROETHANE	UG/L	13.5	2.8	107	20.7	96.9	0.98 J
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
1,1,2-TRICHLOROETHANE	UG/L	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,1-DICHLOROETHANE	UG/L	8.4	2.2 R1j	38.9	10.9	59.5	0.42 J
1,1-DICHLOROETHENE	UG/L	2.7	1.2	20.1	2.7	8.0	< 0.58
1,2-DICHLOROETHANE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-DICHLOROPROPANE	UG/L	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
2-BUTANONE	UG/L	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5	< 6.5
2-HEXANONE	UG/L	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3
4-METHYL-2-PENTANONE	UG/L	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
ACETONE	UG/L	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6
BENZENE	UG/L	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
BROMODICHLOROMETHANE	UG/L	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
BROMOFORM	UG/L	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
BROMOMETHANE	UG/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2 uj
CARBON DISULFIDE	UG/L	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
CARBON TETRACHLORIDE	UG/L	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
CHLOROBENZENE	UG/L	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
CHLORODIBROMOMETHANE	UG/L	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
CHLOROETHANE	UG/L	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
CHLOROFORM	UG/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
CHLOROMETHANE	UG/L	< 1.6	< 1.6	< 1.6 uj	< 1.6 uj	< 1.6	< 1.6
CIS-1,2-DICHLOROETHENE	UG/L	4.5	3.0	19.1	6.4	17.3	< 0.47
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
ETHYLBENZENE	UG/L	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
METHYLENE CHLORIDE	UG/L	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
STYRENE	UG/L	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
TETRACHLOROETHENE	UG/L	< 0.41	< 0.41	0.80 J	< 0.41	1.3	< 0.41
TOLUENE	UG/L	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
TRANS-1,2-DICHLOROETHENE	UG/L	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
TRANS-1,3-DICHLOROPROPENE	UG/L	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
TRICHLOROETHENE	UG/L	2.5	0.75 J	11.7	5.0	17.4	0.50 J
VINYL CHLORIDE	UG/L	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
XYLENE, TOTAL	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

NOTES:

Laboratory data qualifiers are included in the laboratory reports in Attachment 7. See specific laboratory report for Sample Delivery Group (SDG) definition.

Non-detect results are reported as "< Limit of Detection (LOD)"

Data Validation Qualifiers:

u = data validation rules result as not detected

j = the result is estimated

**LEMBERGER LANDFILL
MONITORING WELL INDICATOR PARAMETERS AND FIELD DATA
SEPTEMBER/OCTOBER 2022**

PARAMETER	UNITS	OW-104F	RM-002D	RM-003D	RM-003XXD	RM-003XXD DUP	RM-004D	RM-005D
		10/28/2022 40253980001	9/30/2022 40252499005	9/30/2022 40252499003	9/30/2022 40252499004	9/30/2022 40252499007	9/29/2022 40252499X01	10/28/2022 40253980002
ALKALINITY AS CaCO ₃ , TOTAL	MG/L	307 j+	320 j+		351 j+	360 j+		
CHLORIDE	MG/L	8.2 M0j+	13.1 j+		29.3 j+	29.6 j+		
COLOR, FIELD		NONE	NONE	NONE	NONE			NONE
CONDUCTANCE, SPECIFIC	UMHOS/CM	603	559	745	811			793
DEPTH TO WATER	FEET	37.36	23.77	18.12	15.72		54.72	42.65
DISSOLVED OXYGEN, FIELD	MG/L	0.24	1.00	0.82	1.02			1.10
IRON, TOTAL	UG/L	187 J	115 J		< 58.0	< 58.0		
MANGANESE, TOTAL	UG/L	7.4	95.0		< 1.2	< 1.2		
NITROGEN, NITRATE + NITRITE	MG/L	1.7	0.97		6.0	6.1		
ODOR, FIELD		NONE	NONE	NONE	NONE			NONE
OXIDATION REDUCTION POTENTIAL	MV	106	109	200	143			139
PH, FIELD	SU	7.54	7.39	7.13	7.17			7.25
SULFATE, TOTAL	MG/L	21.5 M0j+	36.0 j+		28.3 j+	28.3 j+		
TEMPERATURE	DEG C	7.2	8.7	9.6	9.4			9.6
TOTAL ORGANIC CARBON AS NPOC	MG/L	0.72 j+	1.8 j+		1.2 j+	1.3 j+		
TURBIDITY, FIELD								
TURBIDITY, FIELD NTU	NTU	7	6	0	0			0
WATER ELEVATION	FEET	791.38	791.94	802.01	805.81		804.37	800.43
WELL OTHER								

NOTES:

Laboratory data qualifiers are included in the laboratory reports in Attachment 7. See specific laboratory report for Sample Delivery Group (SDG) definition.

Non-detect results are reported as "< Limit of Detection (LOD)"

Data Validation Qualifiers:

u = data validation rules result as not detected

j = the result is estimated

j+ = the result is estimated with a positive bias.

j- = the result is estimated with a negative bias.

**LEMBERGER LANDFILL
MONITORING WELL INDICATOR PARAMETERS AND FIELD DATA
SEPTEMBER/OCTOBER 2022**

PARAMETER	UNITS	RM-007D	RM-007XD	RM-007XD DUP	RM-007XXD	RM-008D	RM-010D	RM-101D
		10/28/2022 40253980004	10/28/2022 40253980006	10/28/2022 40253980007	10/28/2022 40253980005	10/26/2022 40253891001	9/29/2022 40252499X02	10/14/2022 40253296004
ALKALINITY AS CaCO ₃ , TOTAL	MG/L	526 j+	455 j+	455 j+				
CHLORIDE	MG/L	9.9 j+	8.8 j+	8.8 j+				
COLOR, FIELD		NONE	NONE		NONE	NONE		NONE
CONDUCTANCE, SPECIFIC	UMHOS/CM	1177	1046		609	910		725
DEPTH TO WATER	FEET	37.99	39.85		39.95	39.43	45.35	12.84
DISSOLVED OXYGEN, FIELD	MG/L	1.71	1.26		0.20	1.90		0.82
IRON, TOTAL	UG/L	318	< 58.0	< 58.0				
MANGANESE, TOTAL	UG/L	27.8	< 1.2	< 1.2				
NITROGEN, NITRATE + NITRITE	MG/L	2.0	1.4	1.3				
ODOR, FIELD		NONE	NONE		NONE	NONE		NONE
OXIDATION REDUCTION POTENTIAL	MV	148	167		-209	84		144
PH, FIELD	SU	6.93	7.06		7.46	7.12		7.37
SULFATE, TOTAL	MG/L	217 j+	128 j+	130 j+				
TEMPERATURE	DEG C	6.9	8.2		7.9	9.6		9.0
TOTAL ORGANIC CARBON AS NPOC	MG/L	2.3 j+	1.5 j+	1.4 j+				
TURBIDITY, FIELD								
TURBIDITY, FIELD NTU	NTU	5	0		0	0		0
WATER ELEVATION	FEET	805.71	804.34		804.73	806.05	804.22	806.41
WELL OTHER								

NOTES:

Laboratory data qualifiers are included in the laboratory reports in Attachment 7. See specific laboratory report for Sample Delivery Group (SDG) definition.

Non-detect results are reported as "< Limit of Detection (LOD)"

Data Validation Qualifiers:

u = data validation rules result as not detected

j = the result is estimated

j+ = the result is estimated with a positive bias.

j- = the result is estimated with a negative bias.

**LEMBERGER LANDFILL
MONITORING WELL INDICATOR PARAMETERS AND FIELD DATA
SEPTEMBER/OCTOBER 2022**

PARAMETER	UNITS	RM-102D	RM-202D	RM-203D	RM-204D	RM-208D	RM-208XD	RM-210D	RM-211D
		10/26/2022 40253891005	10/24/2022 40253893004	10/26/2022 40253891004	10/14/2022 40253296003	10/24/2022 40253893002	10/24/2022 40253893003	9/30/2022 40252499006	10/24/2022 40253893001
ALKALINITY AS CaCO ₃ , TOTAL	MG/L	291 j+		358 M0j+	349 M0j+			379 j+	
CHLORIDE	MG/L	23.1 j+		27.4 j+	15.4 j+			17.3 j+	
COLOR, FIELD		NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
CONDUCTANCE, SPECIFIC	UMHOS/CM	796	609	787	750	756	698	737	721
DEPTH TO WATER	FEET	40.40	10.84	32.69	29.50	39.11	42.32	31.50	17.12
DISSOLVED OXYGEN, FIELD	MG/L	3.36	0.11	2.15	0.40	1.85	0.15	1.86	3.55
IRON, TOTAL	UG/L	< 58.0		125 J	< 58.0			206 J	
MANGANESE, TOTAL	UG/L	< 1.2		3.3 J	1.8 Jju			7.5	
NITROGEN, NITRATE + NITRITE	MG/L	25.0		7.6	3.4			4.1	
ODOR, FIELD		NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
OXIDATION REDUCTION POTENTIAL	MV	78	-142	88	69	128	-127	178	127
PH, FIELD	SU	7.27	7.72	7.35	7.29	7.21	7.38	7.56	7.26
SULFATE, TOTAL	MG/L	11.2 j+		25.9 j+	34.5 j+			37.4 j+	
TEMPERATURE	DEG C	9.3	10.1	9.6	8.8	9.3	8.8	9.2	9.8
TOTAL ORGANIC CARBON AS NPOC	MG/L	1.8 j+		1.2 j+	0.93 j+			1.2 j+	
TURBIDITY, FIELD									
TURBIDITY, FIELD NTU	NTU	7	9	6	6	0	0	7	0
WATER ELEVATION	FEET	833.72	802.74	791.19	798.98	800.8	794.9	796.36	803.23
WELL OTHER									

NOTES:

Laboratory data qualifiers are included in the laboratory reports in Attachment 7. See specific laboratory report for Sample Delivery Group (SDG) definition.

Non-detect results are reported as "< Limit of Detection (LOD)"

Data Validation Qualifiers:

u = data validation rules result as not detected

j = the result is estimated

j+ = the result is estimated with a positive bias.

j- = the result is estimated with a negative bias.

**LEMBERGER LANDFILL
MONITORING WELL INDICATOR PARAMETERS AND FIELD DATA
SEPTEMBER/OCTOBER 2022**

PARAMETER	UNITS	RM-212D	RM-213D	RM-213XD	RM-214D	RM-303D	RM-305D	RM-306D	RM-307D
		10/13/2022 40253296001	10/27/2022 40253980012	10/27/2022 40253980011	10/27/2022 40253980010	10/28/2022 40253980003	9/29/2022 40252499X03	10/27/2022 40253980013	10/27/2022 40253980014
ALKALINITY AS CaCO ₃ , TOTAL	MG/L								
CHLORIDE	MG/L								
COLOR, FIELD		NONE	NONE	NONE	NONE	NONE		NONE	NONE
CONDUCTANCE, SPECIFIC	UMHOS/CM	615	980	1048	1043	1273		698	892
DEPTH TO WATER	FEET	10.60	36.36	36.87	47.83	59.23	53.58	48.75	48.70
DISSOLVED OXYGEN, FIELD	MG/L	0.17	2.01	1.48	0.23	2.47		5.57	4.84
IRON, TOTAL	UG/L								
MANGANESE, TOTAL	UG/L								
NITROGEN, NITRATE + NITRITE	MG/L								
ODOR, FIELD		NONE	NONE	NONE	NONE	NONE		NONE	NONE
OXIDATION REDUCTION POTENTIAL	MV	169	270	111	100	197		252	207
PH, FIELD	SU	7.62	7.22	7.16	7.03	6.57		7.28	7.23
SULFATE, TOTAL	MG/L								
TEMPERATURE	DEG C	9.5	9.2	9.1	9.7	11.2		8.8	8.4
TOTAL ORGANIC CARBON AS NPOC	MG/L								
TURBIDITY, FIELD									
TURBIDITY, FIELD NTU	NTU	8	6	5	7	146		6	6
WATER ELEVATION	FEET	805.06	804.87	805.83	805.65	805.82	814.37	807.47	805.24
WELL OTHER									

NOTES:

Laboratory data qualifiers are included in the laboratory reports in Attachment 7. See specific laboratory report for Sample Delivery Group (SDG) definition.

Non-detect results are reported as "< Limit of Detection (LOD)"

Data Validation Qualifiers:

u = data validation rules result as not detected

j = the result is estimated

j+ = the result is estimated with a positive bias.

j- = the result is estimated with a negative bias.

**LEMBERGER LANDFILL
MONITORING WELL INDICATOR PARAMETERS AND FIELD DATA
SEPTEMBER/OCTOBER 2022**

PARAMETER	UNITS	RM-401XD	RM-401XXD	RM-402XD	RM-402XXD	RM-403XD	RM-404XXD
		10/24/2022 40253893005	9/29/2022 40252499001	10/26/2022 40253891002	10/26/2022 40253891003	9/29/2022 40252499002	10/13/2022 40253296002
ALKALINITY AS CaCO ₃ , TOTAL	MG/L		310 M0j+	402 j+			308 j+
CHLORIDE	MG/L		32.9	22.2 j+			13.6 j+
COLOR, FIELD		NONE	NONE	NONE	NONE	NONE	NONE
CONDUCTANCE, SPECIFIC	UMHOS/CM	777	759	1274	843	959	732
DEPTH TO WATER	FEET	31.96	27.36	36.28	36.62	38.79	55.96
DISSOLVED OXYGEN, FIELD	MG/L	1.68	1.52	1.24	2.15	1.53	1.52
IRON, TOTAL	UG/L		< 58.0	< 58.0			< 58.0
MANGANESE, TOTAL	UG/L		< 1.2	3.1 J			5.4 j+
NITROGEN, NITRATE + NITRITE	MG/L		10	4.9			2.6
ODOR, FIELD		NONE	NONE	NONE	NONE	NONE	NONE
OXIDATION REDUCTION POTENTIAL	MV	95	227	117	136	171	194
PH, FIELD	SU	7.27	7.35	7.11	7.22	7.05	7.33
SULFATE, TOTAL	MG/L		21.9	323 j+			35.2 j+
TEMPERATURE	DEG C	8.8	8.8	8.8	8.8	9.2	10.1
TOTAL ORGANIC CARBON AS NPOC	MG/L		0.97 j+	1.9 j+			1.5 j+
TURBIDITY, FIELD							
TURBIDITY, FIELD NTU	NTU	0	0	0	0	0	5
WATER ELEVATION	FEET	801.64	805.49	805.79	805.6	805.71	805.7
WELL OTHER							

NOTES:

Laboratory data qualifiers are included in the laboratory reports in Attachment 7. See specific laboratory report for Sample Delivery Group (SDG) definition.

Non-detect results are reported as "< Limit of Detection (LOD)"

Data Validation Qualifiers:

u = data validation rules result as not detected

j = the result is estimated

j+ = the result is estimated with a positive bias.

j- = the result is estimated with a negative bias.

Attachment 7
Laboratory Data Qualifiers for Monitoring Wells

QUALIFIERS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252421

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 - Estimated concentration at or above the LOD and below the LOQ.

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.

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 - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: 473040.0000PH4 LEMBERGER LF RE

Pace Project No.: 40252422

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 - Estimated concentration at or above the LOD and below the LOQ.

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.

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 - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: 473040.0000PH4 LEMBERGER LF RE
Pace Project No.: 40252423

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 - Estimated concentration at or above the LOD and below the LOQ.

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.

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 - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 473040.0000PH4 LEMBERGER

Pace Project No.: 40252499

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 - Estimated concentration at or above the LOD and below the LOQ.

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.

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 - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: 473040.0PH.4LEMBERGER LF-PLUME
Pace Project No.: 40253296

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 - Estimated concentration at or above the LOD and below the LOQ.

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.

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 - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 473040.0000PH 4 LEMBERGER LF

Pace Project No.: 40253891

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 - Estimated concentration at or above the LOD and below the LOQ.

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.

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 - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: 473040.0000PH4 LEMBERGER LF-SE

Pace Project No.: 40253893

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 - Estimated concentration at or above the LOD and below the LOQ.

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.

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 - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: 473040.0000PH4 LEMBERGER LF PL
Pace Project No.: 40253980

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 - Estimated concentration at or above the LOD and below the LOQ.
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.
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 - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.
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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Attachment 8

**Tabular Summary of Groundwater Standard Exceedances
at Plume Monitoring Wells**

**Summary of Groundwater Standard Exceedances at Plume Monitoring Wells
Lemberger Landfill Sites
3rd Quarter 2022**

Well ID	Parameter	Result	Data Qualifiers	Units	Standard ¹		Well Location
					ES ²	PAL ³	
OW-104F	1,1-Dichloroethene	1.1		UG/L		X	4,500' northwest of LL site
OW-104F	Iron, total	187	J	UG/L		X	4,500' northwest of LL site
OW-104F	Trichloroethene	2.9		UG/L		X	4,500' northwest of LL site
RM-002D	1,1-Dichloroethene	0.74	J	UG/L		X	2,900' northwest of LL site
RM-002D	Manganese, total	95		UG/L	X		2,900' northwest of LL site
RM-002D	Trichloroethene	1.6		UG/L		X	2,900' northwest of LL site
RM-003D	1,1-Dichloroethene	1.4		UG/L		X	1,000' west of LL site
RM-003D	Trichloroethene	2.7		UG/L		X	1,000' west of LL site
RM-003XXD	1,1-Dichloroethene	0.76	J	UG/L		X	1,000' west of LL site
RM-003XXD	Nitrogen, nitrate + nitrite	6		MG/L		X	1,000' west of LL site
RM-003XXD	Trichloroethene	1.8		UG/L		X	1,000' west of LL site
RM-003XXD DUP	Nitrogen, nitrate + nitrite	6.1		MG/L		X	1,000' west of LL site
RM-003XXD DUP	Trichloroethene	1.9		UG/L		X	1,000' west of LL site
RM-005D	1,1-Dichloroethene	2.3		UG/L		X	Northwest side of LL site
RM-005D	Trichloroethene	3		UG/L		X	Northwest side of LL site
RM-007D	1,1,1-Trichloroethane	267		UG/L	X		North side of LTR site
RM-007D	1,1-Dichloroethane	232		UG/L		X	North side of LTR site
RM-007D	1,1-Dichloroethene	27.7		UG/L	X		North side of LTR site
RM-007D	cis-1,2-Dichloroethene	82.5		UG/L	X		North side of LTR site
RM-007D	Iron, total	318		UG/L	X		North side of LTR site
RM-007D	Manganese, total	27.8		UG/L		X	North side of LTR site
RM-007D	Nitrogen, nitrate + nitrite	2		MG/L		X	North side of LTR site
RM-007D	Sulfate, total	217	j+	MG/L		X	North side of LTR site
RM-007D	Tetrachloroethene	2.9		UG/L		X	North side of LTR site
RM-007D	Trichloroethene	51.7		UG/L	X		North side of LTR site
RM-007XD	1,1,1-Trichloroethane	223		UG/L	X		North side of LTR site
RM-007XD	1,1-Dichloroethane	173		UG/L		X	North side of LTR site
RM-007XD	1,1-Dichloroethene	29.6		UG/L	X		North side of LTR site
RM-007XD	cis-1,2-Dichloroethene	74.8		UG/L	X		North side of LTR site
RM-007XD	Sulfate, total	128	j+	MG/L		X	North side of LTR site
RM-007XD	Tetrachloroethene	2.3		UG/L		X	North side of LTR site
RM-007XD	Trichloroethene	44		UG/L	X		North side of LTR site
RM-007XD DUP	1,1,1-Trichloroethane	206		UG/L	X		North side of LTR site
RM-007XD DUP	1,1-Dichloroethane	170		UG/L		X	North side of LTR site
RM-007XD DUP	1,1-Dichloroethene	23.3		UG/L	X		North side of LTR site
RM-007XD DUP	cis-1,2-Dichloroethene	69.5		UG/L		X	North side of LTR site

**Summary of Groundwater Standard Exceedances at Plume Monitoring Wells
Lemberger Landfill Sites
3rd Quarter 2022**

Well ID	Parameter	Result	Data Qualifiers	Units	Standard ¹		Well Location
					ES ²	PAL ³	
RM-007XD DUP	Sulfate, total	130	j+	MG/L		X	North side of LTR site
RM-007XD DUP	Tetrachloroethene	1.8	J	UG/L		X	North side of LTR site
RM-007XD DUP	Trichloroethene	39.3		UG/L	X		North side of LTR site
RM-008D	1,1-Dichloroethene	0.92	J	UG/L		X	500' south of LL site
RM-008D	Trichloroethene	3.2		UG/L		X	500' south of LL site
RM-101D	Trichloroethene	0.87	J	UG/L		X	1,400' west of LTR site
RM-102D	Nitrogen, nitrate + nitrite	25		MG/L	X		500' south of LTR site
RM-203D	Nitrogen, nitrate + nitrite	7.6		MG/L		X	5,000' northwest of LL site
RM-204D	1,1-Dichloroethene	1.1		UG/L		X	1,300' north of LL site
RM-204D	Nitrogen, nitrate + nitrite	3.4		MG/L		X	1,300' north of LL site
RM-204D	Trichloroethene	1.9		UG/L		X	1,300' north of LL site
RM-208D	1,1-Dichloroethene	1.8		UG/L		X	Southwest side of LL site
RM-208D	Trichloroethene	2.2		UG/L		X	Southwest side of LL site
RM-210D	1,1-Dichloroethene	0.83	J	UG/L		X	3,600' north of LL site
RM-210D	Iron, total	206	J	UG/L		X	3,600' north of LL site
RM-210D	Nitrogen, nitrate + nitrite	4.1		MG/L		X	3,600' north of LL site
RM-210D	Trichloroethene	1.3		UG/L		X	3,600' north of LL site
RM-213D	Trichloroethene	0.54	J	UG/L		X	600' north of LTR site
RM-213XD	1,1-Dichloroethene	2.3		UG/L		X	600' north of LTR site
RM-213XD	Trichloroethene	2.4		UG/L		X	600' north of LTR site
RM-214D	cis-1,2-Dichloroethene	15.8		UG/L		X	South side of LL site
RM-214D	Trichloroethene	2.5		UG/L		X	South side of LL site
RM-214D	Vinyl chloride	1	J	UG/L	X		South side of LL site
RM-303D	1,1,1-Trichloroethane	295		UG/L	X		North side of LTR site
RM-303D	1,1-Dichloroethane	274		UG/L		X	North side of LTR site
RM-303D	1,1-Dichloroethene	12.7		UG/L	X		North side of LTR site
RM-303D	cis-1,2-Dichloroethene	98.5		UG/L	X		North side of LTR site
RM-303D	Tetrachloroethene	2.8		UG/L		X	North side of LTR site
RM-303D	Trichloroethene	86.6		UG/L	X		North side of LTR site
RM-306D	1,1,1-Trichloroethane	50.9		UG/L		X	West side of LTR site
RM-306D	1,1-Dichloroethene	3		UG/L		X	West side of LTR site
RM-306D	Trichloroethene	4.5		UG/L		X	West side of LTR site
RM-307D	1,1,1-Trichloroethane	72.1		UG/L		X	West side of LTR site
RM-307D	1,1-Dichloroethene	3.5		UG/L		X	West side of LTR site
RM-307D	Tetrachloroethene	0.74	J	UG/L		X	West side of LTR site
RM-307D	Trichloroethene	9.9		UG/L	X		West side of LTR site

**Summary of Groundwater Standard Exceedances at Plume Monitoring Wells
Lemberger Landfill Sites
3rd Quarter 2022**

Well ID	Parameter	Result	Data Qualifiers	Units	Standard ¹		Well Location
					ES ²	PAL ³	
RM-401XD	1,1-Dichloroethene	2.7		UG/L		X	400' Northwest of LL Site
RM-401XD	Trichloroethene	2.5		UG/L		X	400' Northwest of LL Site
RM-401XXD	1,1-Dichloroethene	1.2		UG/L		X	400' Northwest of LL Site
RM-401XXD	Nitrogen, nitrate + nitrite	10		MG/L	X		400' Northwest of LL Site
RM-401XXD	Trichloroethene	0.75	J	UG/L		X	400' Northwest of LL Site
RM-402XD	1,1,1-Trichloroethane	107		UG/L		X	400' Northwest of LTR site
RM-402XD	1,1-Dichloroethene	20.1		UG/L	X		400' Northwest of LTR site
RM-402XD	cis-1,2-Dichloroethene	19.1		UG/L		X	400' Northwest of LTR site
RM-402XD	Nitrogen, nitrate + nitrite	4.9		MG/L		X	400' Northwest of LTR site
RM-402XD	Sulfate, total	323	j+	MG/L	X		400' Northwest of LTR site
RM-402XD	Tetrachloroethene	0.8	J	UG/L		X	400' Northwest of LTR site
RM-402XD	Trichloroethene	11.7		UG/L	X		400' Northwest of LTR site
RM-402XXD	1,1-Dichloroethene	2.7		UG/L		X	400' Northwest of LTR site
RM-402XXD	Trichloroethene	5		UG/L	X		400' Northwest of LTR site
RM-403XD	1,1,1-Trichloroethane	96.9		UG/L		X	400' West of LTR site
RM-403XD	1,1-Dichloroethene	8		UG/L	X		400' West of LTR site
RM-403XD	cis-1,2-Dichloroethene	17.3		UG/L		X	400' West of LTR site
RM-403XD	Tetrachloroethene	1.3		UG/L		X	400' West of LTR site
RM-403XD	Trichloroethene	17.4		UG/L	X		400' West of LTR site
RM-404XXD	Nitrogen, nitrate + nitrite	2.6		MG/L		X	1,200' Northwest of LL Site
RM-404XXD	Trichloroethene	0.5	J	UG/L		X	1,200' Northwest of LL Site

Notes:

¹ Table includes exceedances where the reported concentration is between the Limit of Detection and Limit of Quantitation ("J" data qualifier).

² ES =Wisconsin Administrative Code NR140 Enforcement Standard

³ PAL =Wisconsin Administrative Code NR140 Preventive Action Limit

⁴ LTR = Lemberger Transport and Recycling

⁵ LL = Lemberger Landfill

Laboratory qualifiers are included in the sample-specific laboratory reports. See laboratory reports for the SDG-specific definitions.

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats

Instructions:

- Prepare one form for each license or monitoring ID.
- Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to:

GEMS Data Submittal Contact - WA/5
Wisconsin Department of Natural Resources
P.O. Box 7921
Madison, WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner)

TRC Environmental Corp.

Contact for questions about data formatting. Include data preparer's name, telephone number and Email address:

Name Meredith Westover	Phone No. (include area code) (608) 358-5035
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Email
mwestover@trccompanies.com

Facility Name
Lemberger Landfill

License # / Monitoring ID 00753	Facility ID (FID) 436016790
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Actual sampling dates (e.g., July 2-6, 2003) 7/31,8/31,9/29-30,10/13-14,10/24-28, 2022	The enclosed results are for sampling required in the month(s) of: (e.g., June 2003) July, August, and September 2022
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Type of Data Submitted (Check all that apply):

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input checked="" type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input checked="" type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify): |

Notification attached?

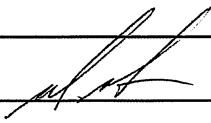
- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Facility Representative Name (Print) Meredith Westover	Title Database Manager	Phone No. (include area code) (608) 358-5035
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Signature



Date Signed (mm/dd/yyyy)

5/2/2023

For DNR Use Only

Check action taken, and record date and your initials. Describe on back side if necessary.

- Found uploading problems on _____ Initials _____
- Notified contact of problems on _____ Uploaded data successfully on _____

EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other: _____