

September 9, 2022

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

Subject: Transmittal of Data  
Residential, Plume Monitoring, and Background Wells  
Lemberger Landfill Sites  
First 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 Monitoring Well
- Attachment 4: Laboratory Data Qualifiers for Monitoring Wells
- Attachment 5: 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 March 2022, in accordance with the February 2021 EMP, revision 5.

Please call if you have questions.

Sincerely,

TRC



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



Meredith Westover, P.G.  
Senior Hydrogeologist

Attachments

Ms. Demaree Collier  
USEPA Region 5  
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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  
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:** Amy Bass (Data Reviewer)  
Elizabeth Denly (Peer Reviewer)

**Date:** May 23, 2022

**Subject:** Data Validation Report  
Groundwater Samples (Plume Wells): 1<sup>st</sup> Quarter 2022  
Lemberger Landfill and Lemberger Transport and Recycling/Franklin, Wisconsin  
Laboratory Project Numbers 40243103 and 40243107

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### SUMMARY

Limited validation (level III) was performed on the data for 10 groundwater samples (plume wells), one field duplicate, one field blank, and one trip blank collected from at the Lemberger Landfill and Lemberger Transport and Recycling Site in Franklin, Wisconsin. The samples were collected on March 29 - 31, 2022. Samples were submitted to Pace Analytical Services, LLC in Green Bay, Wisconsin for analysis. The samples were analyzed for the following parameter:

- Volatile organic compounds (VOCs) using SW-846 Method 8260B

The laboratory reported the results for the plume wells under laboratory project numbers 40243103 and 40243107.

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 acetone, chloromethane, and 2-hexanone in the samples in laboratory project number 40243103 due to continuing calibration nonconformances. These results were qualified as estimated (UJ).

### SAMPLES

Samples included in this review are listed below.

Laboratory Project Number 40243103: plume wells; collected 03/29 - 03/30/2022

- RM-005D
- RM-204D
- RM-208D
- RM-211D
- RM-401XD
- FDUP-002<sup>1</sup>

Laboratory Project Number 40243107: plume wells and QC samples; collected 03/31/2022

- RM-007XD
- RM-008D
- RM-307D
- RM-402XD
- RM-402XXD
- FB-002<sup>2</sup>
- TB-001<sup>2</sup>

<sup>1</sup> FDUP-002: Field duplicate of RM-208D

<sup>2</sup> These field QC samples are relevant to plume well samples collected 03/31/2022

## 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.

The laboratory noted two sample labels had collection times that differed from the COC in laboratory report number 40243107 (samples RM-402XXD and RM-402XD). The laboratory logged the sample collection times according to the COC. No validation action was required on this basis.

### 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 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 between seven and nine 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 bromofluorobenzene tunes were within the acceptance criteria.

### 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. The same initial calibration was applied to the two data packages included in this review.

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  |
|--------------------------------|---------------|----------|--|---|
| 40MSV3<br>04/11/2022<br>@07:22 | Acetone       | -25.2461 | RM-005D, RM-204D, RM-208D, RM-211D, RM-401XD, FDUP-003 | The nondetect results for the listed VOCs were qualified as estimated (UJ) in the associated samples. |
|                                | Chloromethane | -24.4798 |  |   |
|                                | 2-Hexanone    | -23.2422 |  |   |

### Blanks

Target analytes were not detected in the laboratory method blanks or in the trip blank (TB-001). The following table summarizes the concentration of the compound that was detected in the field blank, the associated samples, and the resulting validation actions.

| Analyte | Blank Concentration (µg/L) | QL (µg/L) | Blank ID:<br>Associated Samples                            | Validation Actions   |
|---------|----------------------------|-----------|--|--|
| Toluene | 1.4                        | 1.0       | FB-002:<br>RM-007XD, RM-008D, RM-307D, RM-402XD, RM-402XXD | Qualification was not required since toluene was not detected in the associated samples. |

### 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 were performed on samples RM-005D and RM-402XXD. The MS/MSD %Rs and relative percent differences (RPDs) 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: 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 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

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

- RM-208D and FDUP-002 (laboratory project number 40243103)

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

| Analyte                | QL (µg/L) | RM-208D (µg/L) | FDUP-002 (µg/L) | RPD (%) or AbsD (µg/L) | Validation Action                                 |
|------------------------|-----------|----------------|-----------------|------------------------|---|
| 1,1,1-Trichloroethane  | 1.0       | 8.5            | 8.2             | RPD = 3.6              | None; all criteria were met (see criteria, below) |
| 1,1-Dichloroethane     | 1.0       | 6.2            | 5.7             | RPD = 8.4              |   |
| 1,1-Dichloroethene     | 1.0       | 1.8            | 1.9             | AbsD = 0.1             |   |
| cis-1,2-Dichloroethene | 1.0       | 3.9            | 4.6             | AbsD = 0.7             |   |
| Trichloroethene        | 1.0       | 1.8            | 2.6             | AbsD = 0.8             |   |

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

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**

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

SAMPLE NO.

RM-211D

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/11/2022 11:57  
Date Analyzed: 04/11/2022 11:57  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 47340.0000 PHASE 2 LEMBERGER  
Matrix: Water SDG No.: 40243103  
Lab Sample ID: 40243103001  
Lab File ID: 04112022.B\04112217.D  
Instrument: 40MSV3 Percent Moisture:         

| CAS NO.    | COMPOUND                    | CONCENTRATION UNITS: ug/L | Q               |
|------------|-----------------------------|---------------------------|-----------------|
| 67-64-1    | Acetone                     | <8.6                      | <del>U</del> UJ |
| 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                      | <del>U</del> UJ |
| 124-48-1   | Dibromochloromethane        | <2.6                      | U               |
| 75-34-3    | 1,1-Dichloroethane          | 0.61                      | 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                      | <del>U</del> UJ |
| 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       | 1.1                       |                 |
| 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               |

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

SAMPLE NO.

RM-204D

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/11/2022 12:56  
Date Analyzed: 04/11/2022 12:56  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 47340.0000 PHASE 2 LEMBERGER  
Matrix: Water SDG No.: 40243103  
Lab Sample ID: 40243103002  
Lab File ID: 04112022.B\04112220.D  
Instrument: 40MSV3 Percent Moisture:         

| CAS NO.    | COMPOUND                    | CONCENTRATION UNITS: ug/L | Q               |
|------------|-----------------------------|---------------------------|-----------------|
| 67-64-1    | Acetone                     | <8.6                      | <del>U</del> UJ |
| 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                      | <del>U</del> UJ |
| 124-48-1   | Dibromochloromethane        | <2.6                      | U               |
| 75-34-3    | 1,1-Dichloroethane          | 11.6                      |                 |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U               |
| 75-35-4    | 1,1-Dichloroethene          | 2.2                       |                 |
| 156-59-2   | cis-1,2-Dichloroethene      | 2.8                       |                 |
| 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                      | <del>U</del> UJ |
| 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       | 14.3                      |                 |
| 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               |

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

SAMPLE NO.

RM-401XD

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/11/2022 13:16  
Date Analyzed: 04/11/2022 13:16  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 47340.0000 PHASE 2 LEMBERGER  
Matrix: Water SDG No.: 40243103  
Lab Sample ID: 40243103003  
Lab File ID: 04112022.B\04112221.D  
Instrument: 40MSV3 Percent Moisture:         

| CAS NO.    | COMPOUND                    | CONCENTRATION UNITS: ug/L | Q               |
|------------|-----------------------------|---------------------------|-----------------|
| 67-64-1    | Acetone                     | <8.6                      | <del>U</del> UJ |
| 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                      | <del>U</del> UJ |
| 124-48-1   | Dibromochloromethane        | <2.6                      | U               |
| 75-34-3    | 1,1-Dichloroethane          | 12.0                      |                 |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U               |
| 75-35-4    | 1,1-Dichloroethene          | 3.2                       |                 |
| 156-59-2   | cis-1,2-Dichloroethene      | 4.2                       |                 |
| 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                      | <del>U</del> UJ |
| 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       | 15.3                      |                 |
| 79-00-5    | 1,1,2-Trichloroethane       | <0.34                     | U               |
| 79-01-6    | Trichloroethene             | 2.8                       |                 |
| 75-01-4    | Vinyl chloride              | <0.17                     | U               |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U               |

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

SAMPLE NO.

RM-005D

Lab Name: Pace Analytical - Green Bay  
 Date Received: 04/07/2022 14:50  
 Date Extracted: 04/11/2022 11:38  
 Date Analyzed: 04/11/2022 11:38  
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 47340.0000 PHASE 2 LEMBERGER  
 Matrix: Water SDG No.: 40243103  
 Lab Sample ID: 40243103004  
 Lab File ID: 04112022.B\04112216.D  
 Instrument: 40MSV3 Percent Moisture:         

| CAS NO.    | COMPOUND                    | CONCENTRATION UNITS: ug/L | Q               |
|------------|-----------------------------|---------------------------|-----------------|
| 67-64-1    | Acetone                     | <8.6                      | <del>U</del> UJ |
| 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                      | <del>U</del> UJ |
| 124-48-1   | Dibromochloromethane        | <2.6                      | U               |
| 75-34-3    | 1,1-Dichloroethane          | 14.3                      |                 |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U               |
| 75-35-4    | 1,1-Dichloroethene          | 3.0                       |                 |
| 156-59-2   | cis-1,2-Dichloroethene      | 6.3                       |                 |
| 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                      | <del>U</del> UJ |
| 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       | 16.4                      |                 |
| 79-00-5    | 1,1,2-Trichloroethane       | <0.34                     | U               |
| 79-01-6    | Trichloroethene             | 3.1                       |                 |
| 75-01-4    | Vinyl chloride              | <0.17                     | U               |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U               |

04/13/2022 12:33

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

SAMPLE NO.

RM-208D

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/11/2022 13:35  
Date Analyzed: 04/11/2022 13:35  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 47340.0000 PHASE 2 LEMBERGER  
Matrix: Water SDG No.: 40243103  
Lab Sample ID: 40243103005  
Lab File ID: 04112022.B\04112222.D  
Instrument: 40MSV3 Percent Moisture:         

| CAS NO.    | COMPOUND                    | CONCENTRATION UNITS: ug/L | Q               |
|------------|-----------------------------|---------------------------|-----------------|
| 67-64-1    | Acetone                     | <8.6                      | <del>U</del> JJ |
| 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                      | <del>U</del> JJ |
| 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          | 1.8                       |                 |
| 156-59-2   | cis-1,2-Dichloroethene      | 3.9                       |                 |
| 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                      | <del>U</del> JJ |
| 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       | 8.5                       |                 |
| 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               |

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

SAMPLE NO.

FDUP-002

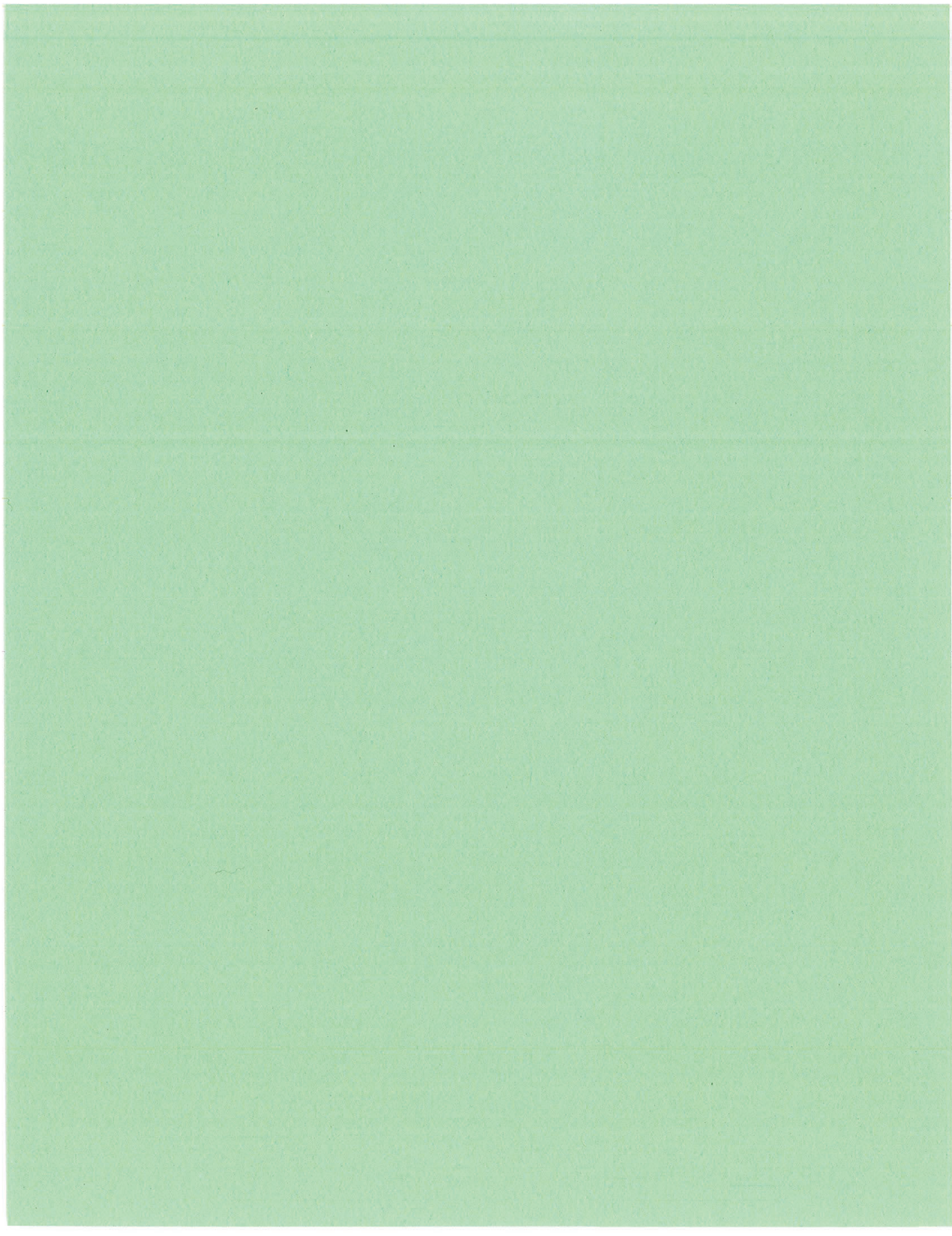
Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/11/2022 13:55  
Date Analyzed: 04/11/2022 13:55  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 47340.0000 PHASE 2 LEMBERGER  
Matrix: Water SDG No.: 40243103  
Lab Sample ID: 40243103006  
Lab File ID: 04112022.B\04112223.D  
Instrument: 40MSV3 Percent Moisture:         

| CAS NO.    | COMPOUND                    | CONCENTRATION UNITS: ug/L | Q               |
|------------|-----------------------------|---------------------------|-----------------|
| 67-64-1    | Acetone                     | <8.6                      | <del>U</del> UJ |
| 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                      | <del>U</del> UJ |
| 124-48-1   | Dibromochloromethane        | <2.6                      | U               |
| 75-34-3    | 1,1-Dichloroethane          | 5.7                       |                 |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U               |
| 75-35-4    | 1,1-Dichloroethene          | 1.9                       |                 |
| 156-59-2   | cis-1,2-Dichloroethene      | 4.6                       |                 |
| 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                      | <del>U</del> UJ |
| 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       | 8.2                       |                 |
| 79-00-5    | 1,1,2-Trichloroethane       | <0.34                     | U               |
| 79-01-6    | Trichloroethene             | 2.6                       |                 |
| 75-01-4    | Vinyl chloride              | <0.17                     | U               |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U               |

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

SAMPLE NO.

RM-402XXD

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/11/2022 22:08  
Date Analyzed: 04/11/2022 22:08  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000 PHASE 2 LEMBERGER  
Matrix: Water SDG No.: 40243107  
Lab Sample ID: 40243107001  
Lab File ID: 04112022.B\04112260.D  
Instrument: 40MSV3 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          | 11.8                      |   |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U |
| 75-35-4    | 1,1-Dichloroethene          | 2.8                       |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 4.9                       |   |
| 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                      | 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       | 21.3                      |   |
| 79-00-5    | 1,1,2-Trichloroethane       | <0.34                     | U |
| 79-01-6    | Trichloroethene             | 4.9                       |   |
| 75-01-4    | Vinyl chloride              | <0.17                     | U |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U |

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

SAMPLE NO.

RM-402XD

Lab Name: Pace Analytical - Green Bay  
 Date Received: 04/07/2022 14:50  
 Date Extracted: 04/11/2022 23:07  
 Date Analyzed: 04/11/2022 23:07  
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000 PHASE 2 LEMBERGER  
 Matrix: Water SDG No.: 40243107  
 Lab Sample ID: 40243107002  
 Lab File ID: 04112022.B\04112263.D  
 Instrument: 40MSV3 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          | 44.9                      |   |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U |
| 75-35-4    | 1,1-Dichloroethene          | 22.5                      |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 17.6                      |   |
| 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       | 101                       |   |
| 79-00-5    | 1,1,2-Trichloroethane       | <0.34                     | U |
| 79-01-6    | Trichloroethene             | 12.2                      |   |
| 75-01-4    | Vinyl chloride              | <0.17                     | U |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U |

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

SAMPLE NO.

RM-008D

Lab Name: Pace Analytical - Green Bay  
 Date Received: 04/07/2022 14:50  
 Date Extracted: 04/11/2022 23:27  
 Date Analyzed: 04/11/2022 23:27  
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000 PHASE 2 LEMBERGER  
 Matrix: Water SDG No.: 40243107  
 Lab Sample ID: 40243107003  
 Lab File ID: 04112022.B\04112264.D  
 Instrument: 40MSV3 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          | 8.1                       |   |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U |
| 75-35-4    | 1,1-Dichloroethene          | 1.6                       |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 3.9                       |   |
| 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                      | 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       | 24.3                      |   |
| 79-00-5    | 1,1,2-Trichloroethane       | <0.34                     | U |
| 79-01-6    | Trichloroethene             | 3.8                       |   |
| 75-01-4    | Vinyl chloride              | <0.17                     | U |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U |

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

SAMPLE NO.

RM-007XD

Lab Name: Pace Analytical - Green Bay  
 Date Received: 04/07/2022 14:50  
 Date Extracted: 04/12/2022 01:05  
 Date Analyzed: 04/12/2022 01:05  
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000 PHASE 2 LEMBERGER  
 Matrix: Water SDG No.: 40243107  
 Lab Sample ID: 40243107004  
 Lab File ID: 04112022.B\04112269.D  
 Instrument: 40MSV3 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          | 200                       |   |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U |
| 75-35-4    | 1,1-Dichloroethene          | 31.3                      |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 71.4                      |   |
| 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           | 2.4                       |   |
| 108-88-3   | Toluene                     | <0.29                     | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 221                       |   |
| 79-00-5    | 1,1,2-Trichloroethane       | <0.34                     | U |
| 79-01-6    | Trichloroethene             | 45.1                      |   |
| 75-01-4    | Vinyl chloride              | <0.17                     | U |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U |

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

SAMPLE NO.

RM-307D

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/11/2022 23:46  
Date Analyzed: 04/11/2022 23:46  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000 PHASE 2 LEMBERGER  
Matrix: Water SDG No.: 40243107  
Lab Sample ID: 40243107005  
Lab File ID: 04112022.B\04112265.D  
Instrument: 40MSV3 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          | 14.0                      |   |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U |
| 75-35-4    | 1,1-Dichloroethene          | 3.1                       |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.8                       |   |
| 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           | 0.98                      | J |
| 108-88-3   | Toluene                     | <0.29                     | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 65.9                      |   |
| 79-00-5    | 1,1,2-Trichloroethane       | <0.34                     | U |
| 79-01-6    | Trichloroethene             | 7.1                       |   |
| 75-01-4    | Vinyl chloride              | <0.17                     | U |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U |

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

SAMPLE NO.

FB-002

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/11/2022 22:47  
Date Analyzed: 04/11/2022 22:47  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000 PHASE 2 LEMBERGER  
Matrix: Water SDG No.: 40243107  
Lab Sample ID: 40243107006  
Lab File ID: 04112022.B\04112262.D  
Instrument: 40MSV3 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                     | 1.4                       |   |
| 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 |

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

SAMPLE NO.

TB-001

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/11/2022 21:48  
Date Analyzed: 04/11/2022 21:48  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000 PHASE 2 LEMBERGER  
Matrix: Water SDG No.: 40243107  
Lab Sample ID: 40243107007  
Lab File ID: 04112022.B\04112259.D  
Instrument: 40MSV3 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 |

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## Memorandum

**To:** Meredith Westover

**From:** Amy Bass (Data Reviewer)  
Elizabeth Denly (Peer Reviewer)

**Date:** May 26, 2022

**Subject:** Data Validation Report  
Groundwater Samples (Sentinel Wells): 1<sup>st</sup> Quarter 2022  
Lemberger Landfill and Lemberger Transport and Recycling/Franklin, Wisconsin  
Laboratory Project Numbers 40243102 and 40243104

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### SUMMARY

Full validation (level IV) was performed on the data for six groundwater samples (sentinel wells), one field duplicate, one field blank, and one trip blank collected at the Lemberger Landfill and Lemberger Transport and Recycling Site in Franklin, Wisconsin. The samples were collected on March 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 sentinel well results under laboratory project numbers 40243102 and 40243104.

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 except RM-002D due to continuing calibration nonconformances. These results were qualified as estimated (UJ).

### SAMPLES

Samples included in this review are listed below:

Laboratory Project Number 40243102: sentinel wells and QC samples; collected 03/30/2022

- RM-002D
- RM-210D
- RM-401XXD
- FB-001<sup>1</sup>
- TB-001<sup>1</sup>



Laboratory Project Number 40243104: sentinel wells; collected 03/29/2022

- RM-003D
- RM-003XXD
- RM-403XD
- FDUP-001<sup>2</sup>

<sup>1</sup> These field QC samples are relevant to sentinel well samples collected 03/30/2022

<sup>2</sup> FDUP-001: Field duplicate of RM-403XD

## 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 (MS)/MS Duplicate (MSD) results
- Laboratory control sample (LCS) results
- Internal standard performance
- Laboratory duplicate results
- Field duplicate results
- Quantitation limits 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.

Page numbers (i.e., "Page 1 of 1") were not entered on the COC forms, but the required information was otherwise provided, and signatures and custody chain were properly recorded. The laboratory noted on the Sample Condition Upon Receipt Form for the 40243102 data package that the container label for sample RM-210D reported an incorrect collection date of 03/29/2022; the collection date for this sample was correctly entered as 03/30/2022, in agreement with the COC. No validation actions were required on the basis of these issues.

### Data Completeness

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

- 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.



- 1,1-Dichloroethene is reported as a positive result (detected at 0.74 J µg/L) in sample RM-003XXD. In the original data package, the raw data reporting for this sample indicated that 1,1-dichloroethene was “Not Detected”, and there were no gas chromatogram signal details or mass spectrometer output provided (since the analyte was noted as nondetect). The laboratory issued a corrected data package to provide the missing raw data output. No further validation action was required on this basis.

### 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 were properly preserved.

Samples were received by the laboratory 8 to 9 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 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 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 acceptance criteria (%D ≤20%) in the CCs and the associated samples. The %Ds which were outside of the acceptance criteria in the VOC initial calibration verification (ICV) standards were not summarized in the table below since the ICVs did not immediately precede any VOC sample analyses.

| CC                           | Compound             | %D       | Associated Samples                     | Validation Action   |
|------------------------------|----------------------|----------|--|---|
| 40MSV3<br>04/11/22<br>@07:22 | Acetone              | -25.2461 | RM-210D, RM-401XXD, FB-001, TB-001     | The nondetect results for the listed VOCs were qualified as estimated (UJ) in the associated samples. |
|                              | Chloromethane        | -24.4798 |  |   |
|                              | 2-Hexanone           | -23.2422 |  |   |
| 40MSVB<br>04/08/22<br>@16:30 | 2-Hexanone           | 25.8407  | RM-003D, RM-003XXD, RM-403XD, FDUP-001 |   |
|                              | 4-Methyl-2-pentanone | 20.8559  |  |   |

### Blanks

Target analytes were not detected in the method blanks or trip blank. The following table summarizes the concentration of the compound that was detected in the field blank, the associated samples, and the resulting validation actions.

| Compound | Blank Concentration (µg/L) | QL (µg/L) | Blank ID: Associated Samples                                      | Validation Action   |
|----------|----------------------------|-----------|---|---|
| Toluene  | 1.3                        | 1.0       | FB-001:<br>All sentinel groundwater samples collected on 03/20/22 | No qualification was required since toluene was not detected in the associated samples. |

### Surrogate Spike Recoveries

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

### MS/MSD Results

MS/MSD analyses were performed on sample RM-003D. All MS/MSD %R and relative percent difference (RPD) criteria were met.

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 groundwater sample RM-003D: 2-butanone, 2-hexanone, 4-methyl-2-pentanone, and acetone. No validation action was taken on this basis.

### LCS Results

An LCS analysis was performed each day prior to sample analysis. All LCS %Rs met 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.

### Laboratory Duplicate Results

Laboratory duplicates were not performed on a sample from this data set.

### Field Duplicate Results

Samples RM-403XD and FDUP-001 were submitted as the field duplicate pair with this sample set. The following table summarizes the RPDs or absolute difference (AbsDs) of the detected results in the field duplicate pair. All criteria were met (see criteria below the table).

| Analyte                | QL(s)<br>(µg/L) | RM-403XD<br>(µg/L) | FDUP-001<br>(µg/L) | RPD (%) or<br>AbsD (µg/L) | Validation Action                                    |
|------------------------|-----------------|--------------------|--------------------|---------------------------|--|
| 1,1,1-Trichloroethane  | 1.0             | 90.7               | 81.7               | RPD = 10.4                | None; all criteria were met<br>(see criteria below). |
| 1,1-Dichloroethane     | 1.0             | 55.9               | 51.3               | RPD = 8.6                 |  |
| 1,1-Dichloroethene     | 1.0             | 8.3                | 7.6                | RPD = 8.8                 |  |
| Tetrachloroethene      | 1.0             | 1.1                | 0.79 J             | AbsD = 0.31               |  |
| Trichloroethene        | 1.0             | 11.5               | 10.5               | RPD = 9.1                 |  |
| cis-1,2-Dichloroethene | 1.0             | 12.9               | 12.0               | RPD = 7.2                 |  |

Criteria:

- When both results are  $\geq 5x$  the QL, RPDs must be  $\leq 35\%$ .
- When one or both results are  $< 5x$  the QL, AbsD must be  $<$  the QL.

**Quantitation Limits and Sample Results**

Sample calculations were spot-checked; there were no errors noted. There were no dilutions 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 nondetect VOC results 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<br>140 PAL (µg/L) | WAC Chapter NR<br>140 ES (µg/L) | Laboratory<br>LOD (µg/L) |
|---------------------------|-----------------------------------|----------------------------------|---------------------------------|--------------------------|
| 1,1,2,2-Tetrachloroethane | All samples in this<br>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

**Target Compound Identification**

All criteria were met.



**QUALIFIED FORM 1s**

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

SAMPLE NO.

RM-002D

Lab Name: Pace Analytical - Green Bay  
 Date Received: 04/07/2022 14:50  
 Date Extracted: 04/11/2022 18:32  
 Date Analyzed: 04/11/2022 18:32  
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000 PHASE 2 LEMBERGER  
 Matrix: Water SDG No.: 40243102  
 Lab Sample ID: 40243102001  
 Lab File ID: 04112022.B\04112249.D  
 Instrument: 40MSV3 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          | 6.3                       |   |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U |
| 75-35-4    | 1,1-Dichloroethene          | 0.89                      | J |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.1                       |   |
| 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             | 1.5                       |   |
| 75-01-4    | Vinyl chloride              | <0.17                     | U |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U |

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

SAMPLE NO.

RM-210D

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/11/2022 12:17  
Date Analyzed: 04/11/2022 12:17  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000 PHASE 2 LEMBERGER  
Matrix: Water SDG No.: 40243102  
Lab Sample ID: 40243102002  
Lab File ID: 04112022.B\04112218.D  
Instrument: 40MSV3 Percent Moisture:         

| CAS NO.    | COMPOUND                    | CONCENTRATION UNITS: ug/L | Q               |
|------------|-----------------------------|---------------------------|-----------------|
| 67-64-1    | Acetone                     | <8.6                      | <del>U</del> UJ |
| 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                      | <del>U</del> UJ |
| 124-48-1   | Dibromochloromethane        | <2.6                      | U               |
| 75-34-3    | 1,1-Dichloroethane          | 4.8                       |                 |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U               |
| 75-35-4    | 1,1-Dichloroethene          | 0.99                      | J               |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.6                       |                 |
| 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                      | <del>U</del> UJ |
| 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       | 7.1                       |                 |
| 79-00-5    | 1,1,2-Trichloroethane       | <0.34                     | U               |
| 79-01-6    | Trichloroethene             | 1.2                       |                 |
| 75-01-4    | Vinyl chloride              | <0.17                     | U               |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U               |

04/13/2022 12:33



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

SAMPLE NO.

RM-401XXD

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/11/2022 12:36  
Date Analyzed: 04/11/2022 12:36  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000 PHASE 2 LEMBERGER  
Matrix: Water SDG No.: 40243102  
Lab Sample ID: 40243102003  
Lab File ID: 04112022.B\04112219.D  
Instrument: 40MSV3 Percent Moisture:         

| CAS NO.    | COMPOUND                    | CONCENTRATION UNITS: ug/L | Q               |
|------------|-----------------------------|---------------------------|-----------------|
| 67-64-1    | Acetone                     | <8.6                      | <del>U</del> UJ |
| 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                      | <del>U</del> UJ |
| 124-48-1   | Dibromochloromethane        | <2.6                      | U               |
| 75-34-3    | 1,1-Dichloroethane          | 3.1                       |                 |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U               |
| 75-35-4    | 1,1-Dichloroethene          | 2.0                       |                 |
| 156-59-2   | cis-1,2-Dichloroethene      | 3.1                       |                 |
| 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                      | <del>U</del> UJ |
| 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       | 3.3                       |                 |
| 79-00-5    | 1,1,2-Trichloroethane       | <0.34                     | U               |
| 79-01-6    | Trichloroethene             | 0.56                      | J               |
| 75-01-4    | Vinyl chloride              | <0.17                     | U               |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U               |

04/13/2022 12:33



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

SAMPLE NO.

FB-001

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/11/2022 10:58  
Date Analyzed: 04/11/2022 10:58  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000 PHASE 2 LEMBERGER  
Matrix: Water SDG No.: 40243102  
Lab Sample ID: 40243102004  
Lab File ID: 04112022.B\04112214.D  
Instrument: 40MSV3 Percent Moisture:         

| CAS NO.    | COMPOUND                    | CONCENTRATION UNITS: ug/L | Q               |
|------------|-----------------------------|---------------------------|-----------------|
| 67-64-1    | Acetone                     | <8.6                      | <del>U</del> UJ |
| 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                      | <del>U</del> UJ |
| 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                      | <del>U</del> UJ |
| 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                     | 1.3                       |                 |
| 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               |

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

SAMPLE NO.

TB-001

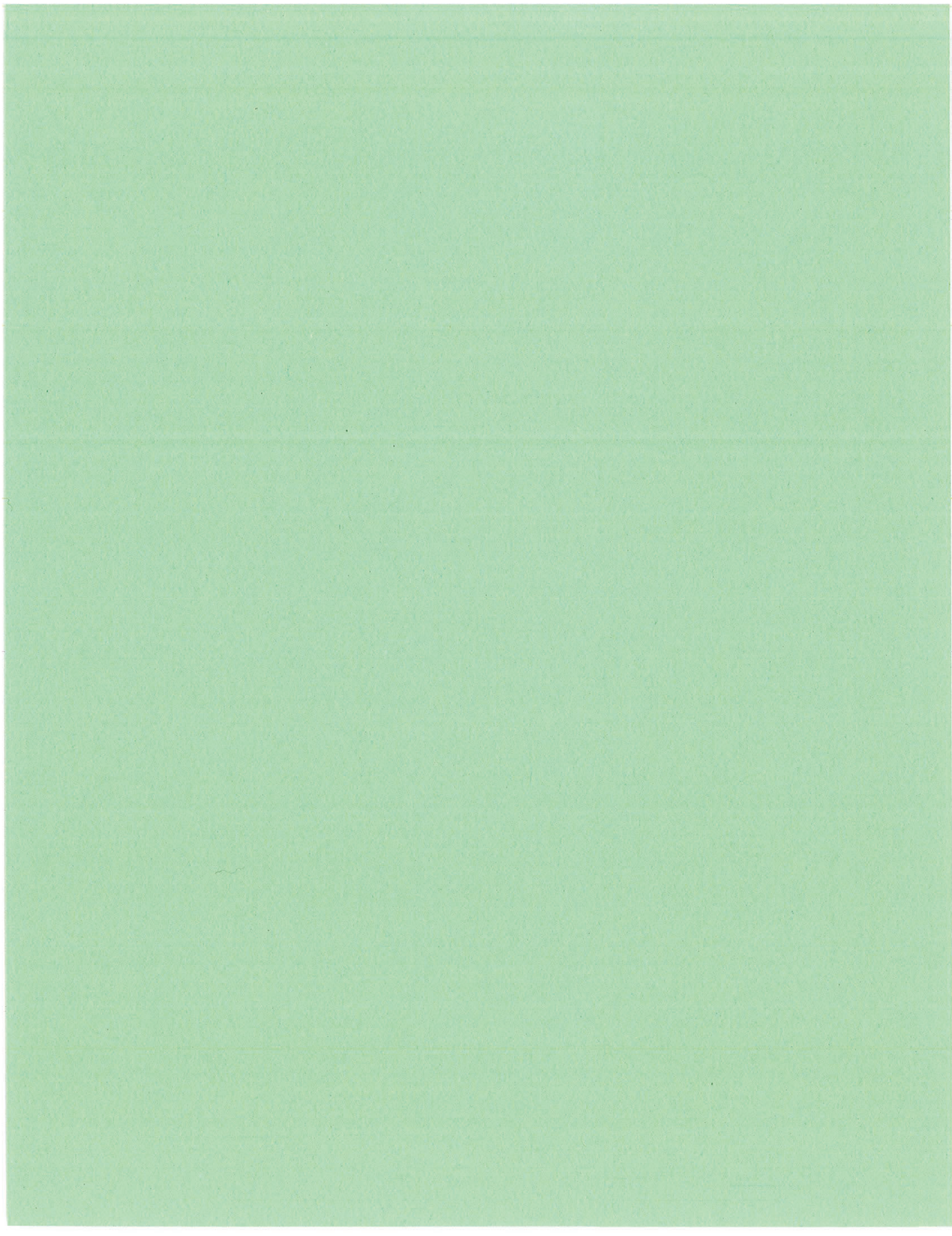
Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/11/2022 11:18  
Date Analyzed: 04/11/2022 11:18  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0000 PHASE 2 LEMBERGER  
Matrix: Water SDG No.: 40243102  
Lab Sample ID: 40243102005  
Lab File ID: 04112022.B\04112215.D  
Instrument: 40MSV3 Percent Moisture:         

| CAS NO.    | COMPOUND                    | CONCENTRATION UNITS: ug/L | Q               |
|------------|-----------------------------|---------------------------|-----------------|
| 67-64-1    | Acetone                     | <8.6                      | <del>U</del> UJ |
| 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                      | <del>U</del> UJ |
| 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                      | <del>U</del> UJ |
| 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               |

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

SAMPLE NO.

RM-003D

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/08/2022 20:35  
Date Analyzed: 04/08/2022 20:35  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0600 PHASE2 LEMBERGERLF  
Matrix: Water SDG No.: 40243104  
Lab Sample ID: 40243104001  
Lab File ID: 04082022.B\04082263.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                      | U               |
| 124-48-1   | Dibromochloromethane        | <2.6                      | U               |
| 75-34-3    | 1,1-Dichloroethane          | 11.5                      |                 |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U               |
| 75-35-4    | 1,1-Dichloroethene          | 1.8                       |                 |
| 156-59-2   | cis-1,2-Dichloroethene      | 3.2                       |                 |
| 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                      | <del>U</del> UJ |
| 75-09-2    | Methylene Chloride          | <0.32                     | U               |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | <6.0                      | <del>U</del> UJ |
| 100-42-5   | Styrene                     | <0.36                     | U               |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | <0.38                     | U               |
| 127-18-4   | Tetrachloroethene           | 0.45                      | J               |
| 108-88-3   | Toluene                     | <0.29                     | U               |
| 71-55-6    | 1,1,1-Trichloroethane       | 18.2                      |                 |
| 79-00-5    | 1,1,2-Trichloroethane       | <0.34                     | U               |
| 79-01-6    | Trichloroethene             | 2.8                       |                 |
| 75-01-4    | Vinyl chloride              | <0.17                     | U               |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U               |

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

SAMPLE NO.

RM-003XXD

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/08/2022 20:56  
Date Analyzed: 04/08/2022 20:56  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0600 PHASE2 LEMBERGERLF  
Matrix: Water SDG No.: 40243104  
Lab Sample ID: 40243104002  
Lab File ID: 04082022.B\04082264.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                      | U               |
| 124-48-1   | Dibromochloromethane        | <2.6                      | U               |
| 75-34-3    | 1,1-Dichloroethane          | 3.2                       |                 |
| 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      | 1.3                       |                 |
| 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                      | <del>U</del> UJ |
| 75-09-2    | Methylene Chloride          | <0.32                     | U               |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | <6.0                      | <del>U</del> UJ |
| 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             | 1.6                       |                 |
| 75-01-4    | Vinyl chloride              | <0.17                     | U               |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U               |

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

SAMPLE NO.

RM-403XD

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/08/2022 21:16  
Date Analyzed: 04/08/2022 21:16  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0600 PHASE2 LEMBERGERLF  
Matrix: Water SDG No.: 40243104  
Lab Sample ID: 40243104003  
Lab File ID: 04082022.B\04082265.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                      | U               |
| 124-48-1   | Dibromochloromethane        | <2.6                      | U               |
| 75-34-3    | 1,1-Dichloroethane          | 55.9                      |                 |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U               |
| 75-35-4    | 1,1-Dichloroethene          | 8.3                       |                 |
| 156-59-2   | cis-1,2-Dichloroethene      | 12.9                      |                 |
| 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                      | <del>U</del> UJ |
| 75-09-2    | Methylene Chloride          | <0.32                     | U               |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | <6.0                      | <del>U</del> UJ |
| 100-42-5   | Styrene                     | <0.36                     | U               |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | <0.38                     | U               |
| 127-18-4   | Tetrachloroethene           | 1.1                       |                 |
| 108-88-3   | Toluene                     | <0.29                     | U               |
| 71-55-6    | 1,1,1-Trichloroethane       | 90.7                      |                 |
| 79-00-5    | 1,1,2-Trichloroethane       | <0.34                     | U               |
| 79-01-6    | Trichloroethene             | 11.5                      |                 |
| 75-01-4    | Vinyl chloride              | <0.17                     | U               |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U               |

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

SAMPLE NO.

FDUP-001

Lab Name: Pace Analytical - Green Bay  
Date Received: 04/07/2022 14:50  
Date Extracted: 04/08/2022 21:37  
Date Analyzed: 04/08/2022 21:37  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: 473040.0600 PHASE2 LEMBERGERLF  
Matrix: Water SDG No.: 40243104  
Lab Sample ID: 40243104004  
Lab File ID: 04082022.B\04082266.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                      | U               |
| 124-48-1   | Dibromochloromethane        | <2.6                      | U               |
| 75-34-3    | 1,1-Dichloroethane          | 51.3                      |                 |
| 107-06-2   | 1,2-Dichloroethane          | <0.29                     | U               |
| 75-35-4    | 1,1-Dichloroethene          | 7.6                       |                 |
| 156-59-2   | cis-1,2-Dichloroethene      | 12.0                      |                 |
| 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                      | <del>U</del> UJ |
| 75-09-2    | Methylene Chloride          | <0.32                     | U               |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | <6.0                      | <del>U</del> UJ |
| 100-42-5   | Styrene                     | <0.36                     | U               |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | <0.38                     | U               |
| 127-18-4   | Tetrachloroethene           | 0.79                      | J               |
| 108-88-3   | Toluene                     | <0.29                     | U               |
| 71-55-6    | 1,1,1-Trichloroethane       | 81.7                      |                 |
| 79-00-5    | 1,1,2-Trichloroethane       | <0.34                     | U               |
| 79-01-6    | Trichloroethene             | 10.5                      |                 |
| 75-01-4    | Vinyl chloride              | <0.17                     | U               |
| 1330-20-7  | Xylene (Total)              | <1.0                      | U               |

04/12/2022 5:23

## **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-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**

| <b>Parameter Name</b>  | <b>Units</b> | <b>MCL</b> | <b>SMCL</b> | <b>NR PAL</b> | <b>NR ES</b> |
|------------------------|--------------|------------|-------------|---------------|--------------|
| 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**

| <b>Parameter Name</b>    | <b>Units</b> | <b>MCL</b> | <b>SMCL</b> | <b>NR PAL</b> | <b>NR ES</b> |
|--------------------------|--------------|------------|-------------|---------------|--------------|
| 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 February 2021 to reflect January 2020 register (WDNR) and latest USEPA MCLs.

## **Attachment 3**

### **Tabular Summary of Analytical Results at Each Monitoring Well**

**LEMBERGER LANDFILL  
MONITORING WELL VOLATILE ORGANIC ANALYSIS RESULTS  
MARCH 2022**

| PARAMETER                 | UNITS | RM-002D                  | RM-003D                  | RM-003XXD                | RM-005D                  | RM-007XD                 | RM-008D                  | RM-204D                  | RM-208D                  | RM-208D DUP              |
|---------------------------|-------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                           |       | 3/30/2022<br>40243102001 | 3/29/2022<br>40243104001 | 3/29/2022<br>40243104002 | 3/30/2022<br>40243103004 | 3/31/2022<br>40243107004 | 3/31/2022<br>40243107003 | 3/29/2022<br>40243103002 | 3/30/2022<br>40243103005 | 3/30/2022<br>40243103006 |
| 1,1,1-TRICHLOROETHANE     | UG/L  | 6.3                      | 18.2                     | 6.3                      | 16.4                     | 221                      | 24.3                     | 14.3                     | 8.5                      | 8.2                      |
| 1,1,2,2-TETRACHLOROETHANE | UG/L  | < 0.38                   | < 0.38                   | < 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                   | < 0.34                   | < 0.34                   |
| 1,1-DICHLOROETHANE        | UG/L  | 6.3                      | 11.5                     | 3.2                      | 14.3                     | 200                      | 8.1                      | 11.6                     | 6.2                      | 5.7                      |
| 1,1-DICHLOROETHENE        | UG/L  | 0.89 J                   | 1.8                      | 0.74 J                   | 3.0                      | 31.3                     | 1.6                      | 2.2                      | 1.8                      | 1.9                      |
| 1,2-DICHLOROETHANE        | UG/L  | < 0.29                   | < 0.29                   | < 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                   | < 0.45                   | < 0.45                   |
| 2-BUTANONE                | UG/L  | < 6.5                    | < 6.5                    | < 6.5                    | < 6.5                    | < 6.5                    | < 6.5                    | < 6.5                    | < 6.5                    | < 6.5                    |
| 2-HEXANONE                | UG/L  | < 6.3                    | < 6.3 uj                 | < 6.3 uj                 | < 6.3 uj                 | < 6.3                    | < 6.3                    | < 6.3 uj                 | < 6.3 uj                 | < 6.3 uj                 |
| 4-METHYL-2-PENTANONE      | UG/L  | < 6.0                    | < 6.0 uj                 | < 6.0 uj                 | < 6.0                    | < 6.0                    | < 6.0                    | < 6.0                    | < 6.0                    | < 6.0                    |
| ACETONE                   | UG/L  | < 8.6                    | < 8.6                    | < 8.6                    | < 8.6 uj                 | < 8.6                    | < 8.6                    | < 8.6 uj                 | < 8.6 uj                 | < 8.6 uj                 |
| BENZENE                   | UG/L  | < 0.30                   | < 0.30                   | < 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                   | < 0.42                   | < 0.42                   |
| BROMOFORM                 | UG/L  | < 3.8                    | < 3.8                    | < 3.8                    | < 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                    | < 1.2                    | < 1.2                    | < 1.2                    |
| CARBON DISULFIDE          | UG/L  | < 1.1                    | < 1.1                    | < 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                   | < 0.37                   | < 0.37                   |
| CHLOROBENZENE             | UG/L  | < 0.86                   | < 0.86                   | < 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                    | < 2.6                    | < 2.6                    |
| CHLOROETHANE              | UG/L  | < 1.4                    | < 1.4                    | < 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                    | < 1.2                    | < 1.2                    |
| CHLOROMETHANE             | UG/L  | < 1.6                    | < 1.6                    | < 1.6                    | < 1.6 uj                 | < 1.6                    | < 1.6                    | < 1.6 uj                 | < 1.6 uj                 | < 1.6 uj                 |
| CIS-1,2-DICHLOROETHENE    | UG/L  | 1.1                      | 3.2                      | 1.3                      | 6.3                      | 71.4                     | 3.9                      | 2.8                      | 3.9                      | 4.6                      |
| CIS-1,3-DICHLOROPROPENE   | UG/L  | < 0.36                   | < 0.36                   | < 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                   | < 0.33                   | < 0.33                   |
| METHYLENE CHLORIDE        | UG/L  | < 0.32                   | < 0.32                   | < 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                   | < 0.36                   | < 0.36                   |
| TETRACHLOROETHENE         | UG/L  | < 0.41                   | 0.45 J                   | < 0.41                   | < 0.41                   | 2.4                      | < 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                   | < 0.29                   | < 0.29                   |
| TRANS-1,2-DICHLOROETHENE  | UG/L  | < 0.53                   | < 0.53                   | < 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                    | < 3.5                    | < 3.5                    |
| TRICHLOROETHENE           | UG/L  | 1.5                      | 2.8                      | 1.6                      | 3.1                      | 45.1                     | 3.8                      | 1.8                      | 1.8                      | 2.6                      |
| VINYL CHLORIDE            | UG/L  | < 0.17                   | < 0.17                   | < 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                    | < 1.0                    | < 1.0                    |

**NOTES:**

Laboratory data qualifiers are included 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 result is not-detected.

**LEMBERGER LANDFILL**  
**MONITORING WELL VOLATILE ORGANIC ANALYSIS RESULTS**  
**MARCH 2022**

| PARAMETER                 | UNITS | RM-210D     | RM-211D     | RM-307D     | RM-401XD    | RM-401XXD   | RM-402XD    | RM-402XXD   | RM-403XD    | RM-403XD DUP |
|---------------------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
|                           |       | 3/30/2022   | 3/29/2022   | 3/31/2022   | 3/30/2022   | 3/30/2022   | 3/31/2022   | 3/31/2022   | 3/29/2022   | 3/29/2022    |
|                           |       | 40243102002 | 40243103001 | 40243107005 | 40243103003 | 40243102003 | 40243107002 | 40243107001 | 40243104003 | 40243104004  |
| 1,1,1-TRICHLOROETHANE     | UG/L  | 7.1         | 1.1         | 65.9        | 15.3        | 3.3         | 101         | 21.3        | 90.7        | 81.7         |
| 1,1,2,2-TETRACHLOROETHANE | UG/L  | < 0.38      | < 0.38      | < 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      | < 0.34      | < 0.34       |
| 1,1-DICHLOROETHANE        | UG/L  | 4.8         | 0.61 J      | 14.0        | 12.0        | 3.1         | 44.9        | 11.8        | 55.9        | 51.3         |
| 1,1-DICHLOROETHENE        | UG/L  | 0.99 J      | < 0.58      | 3.1         | 3.2         | 2.0         | 22.5        | 2.8         | 8.3         | 7.6          |
| 1,2-DICHLOROETHANE        | UG/L  | < 0.29      | < 0.29      | < 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      | < 0.45      | < 0.45       |
| 2-BUTANONE                | UG/L  | < 6.5       | < 6.5       | < 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       | < 6.3 uj    | < 6.3 uj    | < 6.3       | < 6.3       | < 6.3 uj    | < 6.3 uj     |
| 4-METHYL-2-PENTANONE      | UG/L  | < 6.0       | < 6.0       | < 6.0       | < 6.0       | < 6.0       | < 6.0       | < 6.0       | < 6.0 uj    | < 6.0 uj     |
| ACETONE                   | UG/L  | < 8.6 uj    | < 8.6 uj    | < 8.6       | < 8.6 uj    | < 8.6 uj    | < 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      | < 0.30      | < 0.30       |
| BROMODICHLOROMETHANE      | UG/L  | < 0.42      | < 0.42      | < 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       | < 3.8       | < 3.8        |
| BROMOMETHANE              | UG/L  | < 1.2       | < 1.2       | < 1.2       | < 1.2       | < 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       | < 1.1       | < 1.1        |
| CARBON TETRACHLORIDE      | UG/L  | < 0.37      | < 0.37      | < 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      | < 0.86      | < 0.86       |
| CHLORODIBROMOMETHANE      | UG/L  | < 2.6       | < 2.6       | < 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       | < 1.4       | < 1.4        |
| CHLOROFORM                | UG/L  | < 1.2       | < 1.2       | < 1.2       | < 1.2       | < 1.2       | < 1.2       | < 1.2       | < 1.2       | < 1.2        |
| CHLOROMETHANE             | UG/L  | < 1.6 uj    | < 1.6 uj    | < 1.6       | < 1.6 uj    | < 1.6 uj    | < 1.6       | < 1.6       | < 1.6       | < 1.6        |
| CIS-1,2-DICHLOROETHENE    | UG/L  | 1.6         | < 0.47      | 1.8         | 4.2         | 3.1         | 17.6        | 4.9         | 12.9        | 12.0         |
| CIS-1,3-DICHLOROPROPENE   | UG/L  | < 0.36      | < 0.36      | < 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      | < 0.33      | < 0.33       |
| METHYLENE CHLORIDE        | UG/L  | < 0.32      | < 0.32      | < 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      | < 0.36      | < 0.36       |
| TETRACHLOROETHENE         | UG/L  | < 0.41      | < 0.41      | 0.98 J      | < 0.41      | < 0.41      | 0.80 J      | < 0.41      | 1.1         | 0.79 J       |
| TOLUENE                   | UG/L  | < 0.29      | < 0.29      | < 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      | < 0.53      | < 0.53       |
| TRANS-1,3-DICHLOROPROPENE | UG/L  | < 3.5       | < 3.5       | < 3.5       | < 3.5       | < 3.5       | < 3.5       | < 3.5       | < 3.5       | < 3.5        |
| TRICHLOROETHENE           | UG/L  | 1.2         | < 0.32      | 7.1         | 2.8         | 0.56 J      | 12.2        | 4.9         | 11.5        | 10.5         |
| VINYL CHLORIDE            | UG/L  | < 0.17      | < 0.17      | < 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       | < 1.0       | < 1.0        |

**NOTES:**

Laboratory data qualifiers are included 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 result is not-detected.

**LEMBERGER LANDFILL  
MONITORING WELL INDICATOR PARAMETERS AND FIELD DATA  
MARCH 2022**

|                               |          | RM-002D<br>3/30/2022<br>40243102001 | RM-003D<br>3/29/2022<br>40243104001 | RM-003XXD<br>3/29/2022<br>40243104002 | RM-005D<br>3/30/2022<br>40243103004 | RM-007XD<br>3/31/2022<br>40243107004 | RM-008D<br>3/31/2022<br>40243107003 | RM-204D<br>3/29/2022<br>40243103002 | RM-208D<br>3/30/2022<br>40243103005 |
|-------------------------------|----------|-------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| PARAMETER                     | UNITS    |                                     |                                     |                                       |                                     |                                      |                                     |                                     |                                     |
| COLOR, FIELD                  |          | NONE                                | NONE                                | NONE                                  | NONE                                | NONE                                 | NONE                                | NONE                                | NONE                                |
| CONDUCTANCE, SPECIFIC         | UMHOS/CM | 579                                 | 751                                 | 822                                   | 800                                 | 1008                                 | 937                                 | 763                                 | 764                                 |
| DEPTH TO WATER                | FEET     | 23.23                               | 18.17                               | 15.13                                 | 42.40                               | 37.53                                | 38.22                               | 29.20                               | 38.82                               |
| DISSOLVED OXYGEN, FIELD       | MG/L     | 0.91                                | 1.32                                | 1.76                                  | 1.23                                | 1.29                                 | 3.51                                | 0.49                                | 0.97                                |
| ODOR, FIELD                   |          | NONE                                | NONE                                | NONE                                  | NONE                                | NONE                                 | NONE                                | NONE                                | NONE                                |
| OXIDATION REDUCTION POTENTIAL | MV       | 116                                 | 197                                 | 217                                   | 156                                 | 163                                  | 153                                 | 136                                 | 175                                 |
| PH, FIELD                     | SU       | 7.43                                | 7.21                                | 7.26                                  | 7.22                                | 7.04                                 | 7.17                                | 7.28                                | 7.28                                |
| TEMPERATURE                   | DEG C    | 6.6                                 | 2.0                                 | 1.9                                   | 7.6                                 | 8.6                                  | 2.2                                 | 8.2                                 | 8.6                                 |
| TURBIDITY, FIELD NTU          | NTU      | 6                                   | 0                                   | 0                                     | 0                                   | 0                                    | 0                                   | 5                                   | 0                                   |
| WATER ELEVATION               | FEET     | 792.48                              | 801.96                              | 806.4                                 | 800.68                              | 806.66                               | 807.26                              | 799.28                              | 801.09                              |

**LEMBERGER LANDFILL  
MONITORING WELL INDICATOR PARAMETERS AND FIELD DATA  
MARCH 2022**

| PARAMETER                     | UNITS    | RM-210D                  | RM-211D                  | RM-307D                  | RM-401XD                 | RM-401XXD                | RM-402XD                 | RM-402XXD                | RM-403XD                 |
|-------------------------------|----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                               |          | 3/30/2022<br>40243102002 | 3/29/2022<br>40243103001 | 3/31/2022<br>40243107005 | 3/30/2022<br>40243103003 | 3/30/2022<br>40243102003 | 3/31/2022<br>40243107002 | 3/31/2022<br>40243107001 | 3/29/2022<br>40243104003 |
| COLOR, FIELD                  |          | NONE                     | NONE                     | NONE                     | NONE                     | NONE                     | NONE                     | NONE                     | NONE                     |
| CONDUCTANCE, SPECIFIC         | UMHOS/CM | 736                      | 721                      | 765                      | 771                      | 744                      | 1212                     | 849                      | 904                      |
| DEPTH TO WATER                | FEET     | 29.97                    | 16.28                    | 46.28                    | 31.60                    | 26.78                    | 35.65                    | 35.73                    | 38.10                    |
| DISSOLVED OXYGEN, FIELD       | MG/L     | 1.72                     | 0.49                     | 3.68                     | 1.19                     | 2.72                     | 1.74                     | 2.39                     | 1.82                     |
| ODOR, FIELD                   |          | NONE                     | NONE                     | NONE                     | NONE                     | NONE                     | NONE                     | NONE                     | NONE                     |
| OXIDATION REDUCTION POTENTIAL | MV       | 172                      | 149                      | 251                      | 193                      | 204                      | 242                      | 257                      | 202                      |
| PH, FIELD                     | SU       | 7.51                     | 7.24                     | 6.94                     | 7.28                     | 7.39                     | 7.13                     | 7.17                     | 7.11                     |
| TEMPERATURE                   | DEG C    | 5.3                      | 7.4                      | 8.1                      | 7.8                      | 6.7                      | 3.7                      | 6.3                      | 5.7                      |
| TURBIDITY, FIELD NTU          | NTU      | 7                        | 0                        | 8                        | 3                        | 0                        | 0                        | 0                        | 0                        |
| WATER ELEVATION               | FEET     | 797.89                   | 804.07                   | 807.66                   | 802                      | 806.07                   | 806.42                   | 806.49                   | 806.4                    |



**Attachment 4**  
**Laboratory Data Qualifiers for Monitoring Wells**

## QUALIFIERS

Project: 473040.0000 PHASE 2 LEMBERGER

Pace Project No.: 40243102

---

### 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.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 47340.0000 PHASE 2 LEMBERGER

Pace Project No.: 40243103

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### 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.

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## QUALIFIERS

Project: 473040.0600 PHASE2 LEMBERGERLF

Pace Project No.: 40243104

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### 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.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 473040.0000 PHASE 2 LEMBERGER  
Pace Project No.: 40243107

---

### 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.

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## REPORT OF LABORATORY ANALYSIS

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**Attachment 5**

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



**Summary of Groundwater Standard Exceedances at Plume Monitoring Wells  
Lemberger Landfill Sites  
1st Quarter 2022**

| Well ID     | Parameter              | Result | Data Qualifiers | Units | Standard <sup>1</sup> |                  | Well Location               |
|-------------|------------------------|--------|-----------------|-------|-----------------------|------------------|-----------------------------|
|             |                        |        |                 |       | ES <sup>2</sup>       | PAL <sup>3</sup> |                             |
| RM-002D     | 1,1-Dichloroethene     | 0.89   | J               | UG/L  |                       | X                | 2,900' northwest of LL site |
| RM-002D     | Trichloroethene        | 1.5    |                 | UG/L  |                       | X                | 2,900' northwest of LL site |
| RM-003D     | 1,1-Dichloroethene     | 1.8    |                 | UG/L  |                       | X                | 1,000' west of LL site      |
| RM-003D     | Trichloroethene        | 2.8    |                 | UG/L  |                       | X                | 1,000' west of LL site      |
| RM-003XXD   | 1,1-Dichloroethene     | 0.74   | J               | UG/L  |                       | X                | 1,000' west of LL site      |
| RM-003XXD   | Trichloroethene        | 1.6    |                 | UG/L  |                       | X                | 1,000' west of LL site      |
| RM-005D     | 1,1-Dichloroethene     | 3      |                 | UG/L  |                       | X                | Northwest side of LL site   |
| RM-005D     | Trichloroethene        | 3.1    |                 | UG/L  |                       | X                | Northwest side of LL site   |
| RM-007XD    | 1,1,1-Trichloroethane  | 221    |                 | UG/L  | X                     |                  | North side of LTR site      |
| RM-007XD    | 1,1-Dichloroethane     | 200    |                 | UG/L  |                       | X                | North side of LTR site      |
| RM-007XD    | 1,1-Dichloroethene     | 31.3   |                 | UG/L  | X                     |                  | North side of LTR site      |
| RM-007XD    | cis-1,2-Dichloroethene | 71.4   |                 | UG/L  | X                     |                  | North side of LTR site      |
| RM-007XD    | Tetrachloroethene      | 2.4    |                 | UG/L  |                       | X                | North side of LTR site      |
| RM-007XD    | Trichloroethene        | 45.1   |                 | UG/L  | X                     |                  | North side of LTR site      |
| RM-008D     | 1,1-Dichloroethene     | 1.6    |                 | UG/L  |                       | X                | 500' south of LL site       |
| RM-008D     | Trichloroethene        | 3.8    |                 | UG/L  |                       | X                | 500' south of LL site       |
| RM-204D     | 1,1-Dichloroethene     | 2.2    |                 | UG/L  |                       | X                | 1,300' north of LL site     |
| RM-204D     | Trichloroethene        | 1.8    |                 | 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        | 1.8    |                 | UG/L  |                       | X                | Southwest side of LL site   |
| RM-208D DUP | 1,1-Dichloroethene     | 1.9    |                 | UG/L  |                       | X                | Southwest side of LL site   |
| RM-208D DUP | Trichloroethene        | 2.6    |                 | UG/L  |                       | X                | Southwest side of LL site   |
| RM-210D     | 1,1-Dichloroethene     | 0.99   | J               | UG/L  |                       | X                | 3,600' north of LL site     |
| RM-210D     | Trichloroethene        | 1.2    |                 | UG/L  |                       | X                | 3,600' north of LL site     |
| RM-307D     | 1,1,1-Trichloroethane  | 65.9   |                 | UG/L  |                       | X                | West side of LTR site       |
| RM-307D     | 1,1-Dichloroethene     | 3.1    |                 | UG/L  |                       | X                | West side of LTR site       |
| RM-307D     | Tetrachloroethene      | 0.98   | J               | UG/L  |                       | X                | West side of LTR site       |
| RM-307D     | Trichloroethene        | 7.1    |                 | UG/L  | X                     |                  | West side of LTR site       |
| RM-401XD    | 1,1-Dichloroethene     | 3.2    |                 | UG/L  |                       | X                | 400' Northwest of LL Site   |
| RM-401XD    | Trichloroethene        | 2.8    |                 | UG/L  |                       | X                | 400' Northwest of LL Site   |
| RM-401XXD   | 1,1-Dichloroethene     | 2      |                 | UG/L  |                       | X                | 400' Northwest of LL Site   |
| RM-401XXD   | Trichloroethene        | 0.56   | J               | UG/L  |                       | X                | 400' Northwest of LL Site   |

**Summary of Groundwater Standard Exceedances at Plume Monitoring Wells  
Lemberger Landfill Sites  
1st Quarter 2022**

| Well ID      | Parameter              | Result | Data Qualifiers | Units | Standard <sup>1</sup> |                  | Well Location              |
|--------------|------------------------|--------|-----------------|-------|-----------------------|------------------|----------------------------|
|              |                        |        |                 |       | ES <sup>2</sup>       | PAL <sup>3</sup> |                            |
| RM-402XD     | 1,1,1-Trichloroethane  | 101    |                 | UG/L  |                       | X                | 400' Northwest of LTR site |
| RM-402XD     | 1,1-Dichloroethene     | 22.5   |                 | UG/L  | X                     |                  | 400' Northwest of LTR site |
| RM-402XD     | cis-1,2-Dichloroethene | 17.6   |                 | UG/L  |                       | X                | 400' Northwest of LTR site |
| RM-402XD     | Tetrachloroethene      | 0.8    | J               | UG/L  |                       | X                | 400' Northwest of LTR site |
| RM-402XD     | Trichloroethene        | 12.2   |                 | UG/L  | X                     |                  | 400' Northwest of LTR site |
| RM-402XXD    | 1,1-Dichloroethene     | 2.8    |                 | UG/L  |                       | X                | 400' Northwest of LTR site |
| RM-402XXD    | Trichloroethene        | 4.9    |                 | UG/L  |                       | X                | 400' Northwest of LTR site |
| RM-403XD     | 1,1,1-Trichloroethane  | 90.7   |                 | UG/L  |                       | X                | 400' West of LTR site      |
| RM-403XD     | 1,1-Dichloroethene     | 8.3    |                 | UG/L  | X                     |                  | 400' West of LTR site      |
| RM-403XD     | cis-1,2-Dichloroethene | 12.9   |                 | UG/L  |                       | X                | 400' West of LTR site      |
| RM-403XD     | Tetrachloroethene      | 1.1    |                 | UG/L  |                       | X                | 400' West of LTR site      |
| RM-403XD     | Trichloroethene        | 11.5   |                 | UG/L  | X                     |                  | 400' West of LTR site      |
| RM-403XD DUP | 1,1,1-Trichloroethane  | 81.7   |                 | UG/L  |                       | X                | 400' West of LTR site      |
| RM-403XD DUP | 1,1-Dichloroethene     | 7.6    |                 | UG/L  | X                     |                  | 400' West of LTR site      |
| RM-403XD DUP | cis-1,2-Dichloroethene | 12     |                 | UG/L  |                       | X                | 400' West of LTR site      |
| RM-403XD DUP | Tetrachloroethene      | 0.79   | J               | UG/L  |                       | X                | 400' West of LTR site      |
| RM-403XD DUP | Trichloroethene        | 10.5   |                 | UG/L  | X                     |                  | 400' West of LTR site      |

Notes:

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

<sup>2</sup> ES =Wisconsin Administrative Code NR140 Enforcement Standard

<sup>3</sup> PAL =Wisconsin Administrative Code NR140 Preventive Action Limit

<sup>4</sup> LTR = Lemberger Transport and Recycling

<sup>5</sup> 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<br>Meredith Westover | Phone No. (include area code)<br>(608) 358-5035 |
|---------------------------|---|

Email  
mwestover@trccompanies.com

Facility Name  
Lemberger Landfill

|                                    |                                |
|------------------------------------|--------------------------------|
| License # / Monitoring ID<br>00753 | Facility ID (FID)<br>436016790 |
|------------------------------------|--------------------------------|

|  |   |
|--|---|
| Actual sampling dates (e.g., July 2-6, 2003)<br>1/31, 2/28, 3/29-3/31 2022 | The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)<br>January, February, March 2022 |
|--|---|

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 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):    |

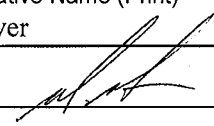
Notification attached?

- 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)<br>Meredith Westover | Title<br>Database Manager | Phone No. (include area code)<br>(608) 358-5035 |
|---|---------------------------|---|

Signature 

Date Signed (mm/dd/yyyy)  
08/01/2022

**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: \_\_\_\_\_