

January 15, 2024

Lee and Roxanne Gnatzig
P.O. Box 101
Reedsburg, WI 53959

SUBJECT: 2nd Round Vapor Sampling Results - Contaminants Not Detected
PROPERTY: Reedsburg Cleaners, 120 N. Locust Street (PSI A); BRRTS # 02-57-001682

Dear Lee and Roxanne Gnatzig,

Included are the findings of our recent 2nd round investigation on your property conducted by Bay West, LLC (Bay West) an environmental consultant hired by the Wisconsin Department of Natural Resources (WDNR).

Background:

As you are aware, this investigation was conducted because of the potential for contaminant vapors from the nearby Reedsburg Cleaners property identified above to migrate through soil, accumulate beneath the foundation of your property, and possibly enter your indoor air. The contaminant of concern at the Reedsburg Cleaners property is tetrachloroethylene (PCE) and trichloroethylene (TCE). The history of this site and the potential concerns to neighboring residents were described in detail in the original letter sent to your home.

Sampling:


On December 5, 2023, Bay West deployed passive air sampling devices at each floor of your residence and installed one passive vapor sampler below the concrete floor of your basement for the collection of indoor air and sub-slab soil vapor samples. On December 19, 2023, the sample devices were retrieved then submitted to Beacon Environmental, where it underwent laboratory analysis for five contaminants, including PCE, TCE, cis-1,2-dichloroethene (DCE), trans-1,2-dichloroethene (DCE) and vinyl chloride (VC).

Your Test Results:

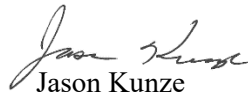
Attached are copies of the laboratory report for your passive vapor sub-slab and indoor air samples. The results of this 2nd round of sampling shows that contaminants of concern were not detected.

In conclusion, sampling the air indoors and beneath your home on two different occasions revealed no detections of the chemicals of concern. As a result, no further air sampling is planned at your property. Thank you for your cooperation with sampling. Please contact us if you have any questions now or in the future.

Sincerely,



Tarek Aboueid
Environmental Scientist
651.724.9757
taboueid@baywest.com



Jason Kunze
Senior Project Manager
651.291.3438
Jkunze@baywest.com

Copy: Mr. Harry Ardono, renter (via US Mail)
Rob Hoverman, PG, WDNR, 414.497.0896, Robert.Hoverman@wisconsin.gov
Jeff Ackerman, WDNR PM, 608.275.3323, jeff.ackerman@wisconsin.gov
Jeremiah Yee, Wisconsin Dept of Health Services, 608-266-1865, dhsdphoperations@dhs.wisconsin.gov

Attachments:

TABLE

Table – Tabulated vapor analytical results with the sample dates, sample type (sub-slab or indoor air), and location.

FIGURES

Figure 1 – Property Location Map

Figure 2 and 2A – Building Map showing sampling locations.

APPENDIX

Appendix A – Access Agreement

Appendix B – Laboratory Analytical Results with Chain of Custody (2nd Round)

Appendix C – Vapor Sampling Field Checklist from (2nd Round)

Appendix D – Understanding Chemical Vapor Testing Results (DNR PUB-RR-977)

TABLE

Table 1A
Indoor Air Sub-Slab Analytical Results

157001460 – Reedsburg Cleaners
120 N. Locust Street, Reedsburg, WI
Property Sample Identifier (PSI) - A

| Location | | 120 N Locust Street (PSI A) | | | | | | | | | |
|--|----------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------|
| Sample ID | Indoor Air VAL | Sub-Slab Vapor | 08A_SSV_01_20230801 | 08A_SSV_01_20231219 | 08A_IAB_01_20230801 | 08A_IAB_01_20231219 | 08A_IA1_02_20230801 | 08A_IA1_02_20231219 | 08A_IA2_03_20230801 | 08A_IA2_03_20231219 | |
| Dates Sampled | Residential | VRSL Residential | 7/18 to 8/1/2023 | 12/5 to 12/19/2023 | 7/18 to 8/1/2023 | 12/5 to 12/19/2023 | 7/18 to 8/1/2023 | 12/5 to 12/19/2023 | 7/18 to 8/1/2023 | 12/5 to 12/19/2023 | |
| Applicable Action Level | | | VRSL | | VAL | | VAL | | VAL | | |
| Volatile Organic Compounds (method EPA TO-17) | | | | | | | | | | | |
| cis-1,2-Dichloroethene | 156-59-2 | 42 | 1400 | < 0.935 | < 0.936 | < 0.928 | < 0.929 | < 0.929 | < 0.929 | < 0.929 | < 0.929 |
| Tetrachloroethene (PCE) | 127-18-4 | 42 | 1400 | < 1.21 | < 1.21 | < 1.20 | < 1.20 | < 1.20 | < 1.20 | < 1.20 | < 1.20 |
| trans-1,2-Dichloroethene | 156-60-5 | 42 | 1400 | < 1.13 | < 1.13 | < 1.12 | < 1.12 | < 1.12 | < 1.12 | < 1.12 | < 1.12 |
| Trichloroethene (TCE) | 79-01-6 | 2.1 | 70 | < 1.50 | < 1.50 | < 1.49 | < 1.49 | < 1.49 | < 1.49 | < 1.49 | < 1.49 |
| Vinyl chloride | 75-01-4 | 1.7 | 56 | < 0.612 | < 0.613 | < 0.607 | < 0.608 | < 0.608 | < 0.608 | < 0.608 | < 0.608 |

Notes:

All results are in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

USEPA VISL – United States Environmental Protection Agency Vapor Intrusion Screening Level

WIDNR – Wisconsin Department of Natural Resources

VAL – WIDNR Vapor Action Level, calculated using USEPA VISLs published November 2023

VRSL – WIDNR Vapor Risk Screening Level, calculated using USEPA VISLs published November 2023

– – No USEPA VISL established

< – Less than the laboratory Reporting Limit (RL)

Bold – Analyte detected

Grey – Result exceeds the Residential VAL

Orange – Result exceeds the Residential VRSL

FIGURES

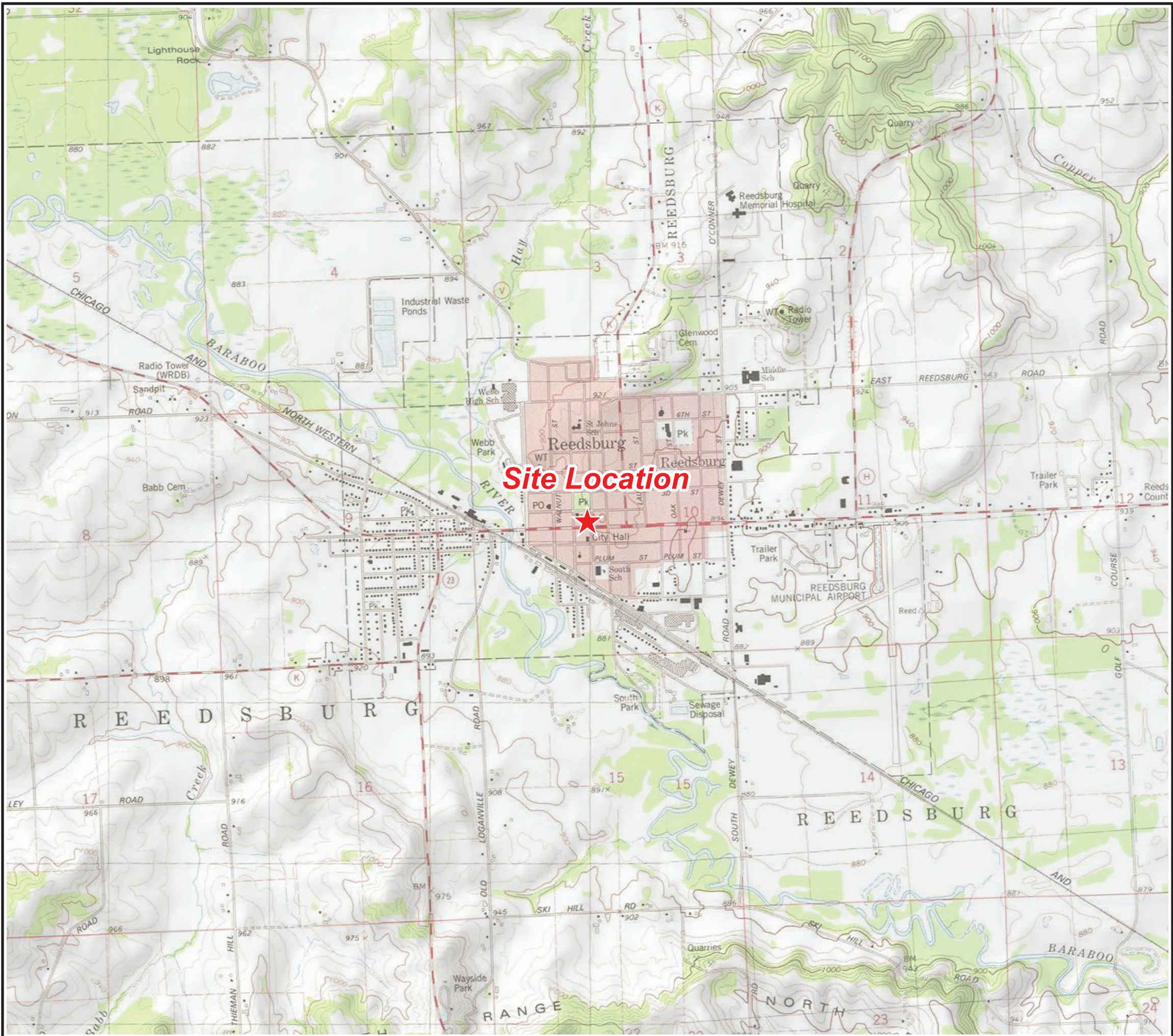
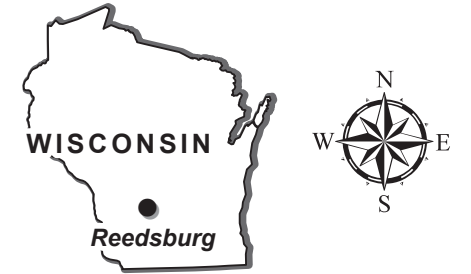


Figure 1

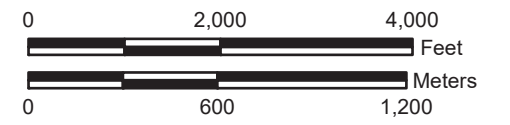
Site Location Map

Reedsburg Cleaners
WDNR ERP Case #: 02-57-001682
WDNR PS Act. ID: VIZC_REEDSBURG

Reedsburg, WI 53959



Map Projection: NAD 1983 UTM Zone 15 N, Meters
Basemap: ESRI USA Topo Maps WMS



1:24,000

★ Site Location



Y:\Clients\WISCONSIN_DEPT_OF_NATURAL_RESOURCES\Reedsburg_Cleaners\Projects\J230382\001_Vapor_Intrusion\001_Vapor_Intrusion.aprx

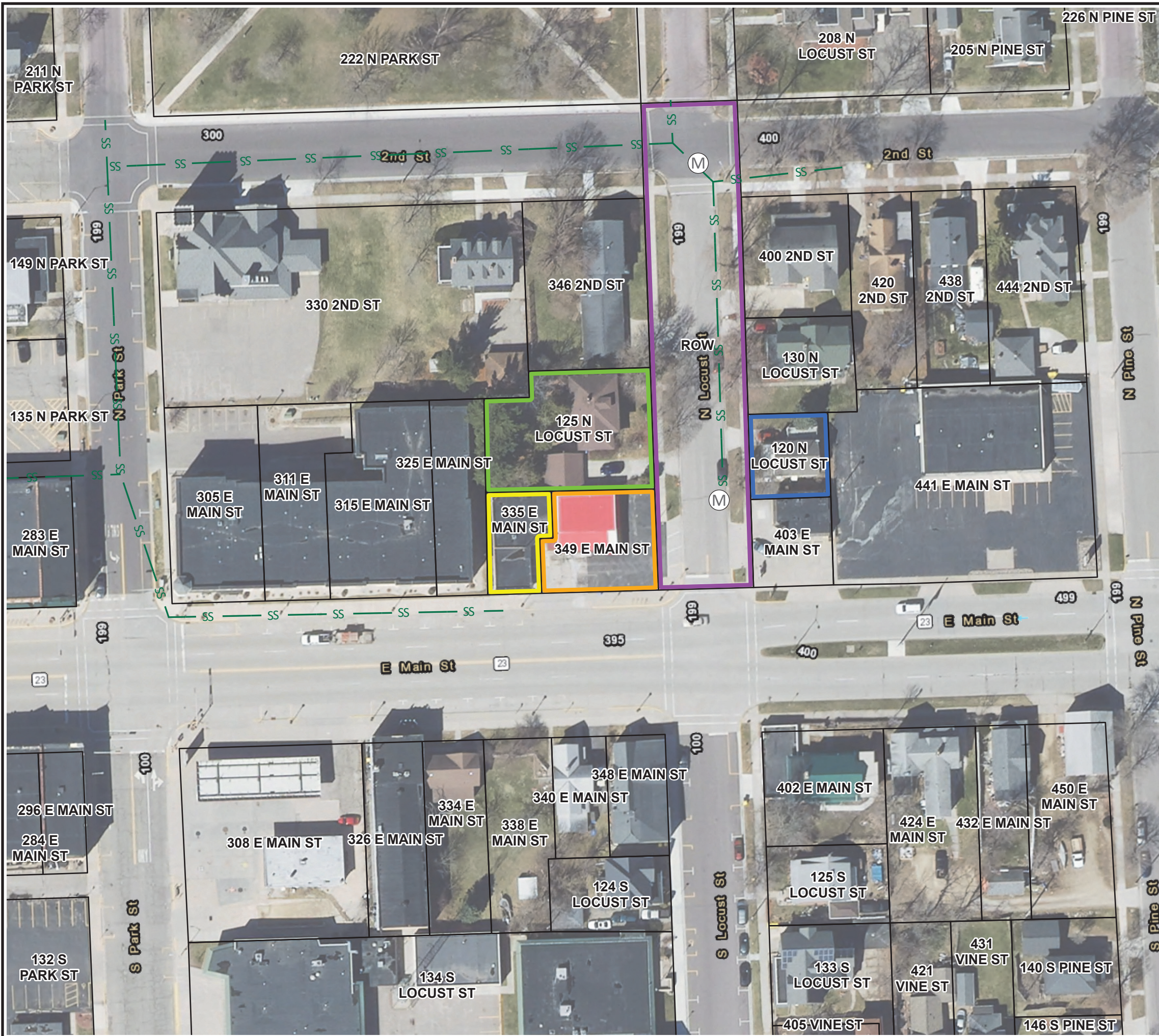


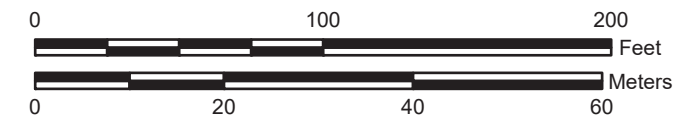
Figure 2 Site Map

Reedsburg Cleaners
 WDNR ERP Case #: 02-57-001682
 WDNR PS Act. ID: VIZC_REEDSBURG

Reedsburg, WI 53959



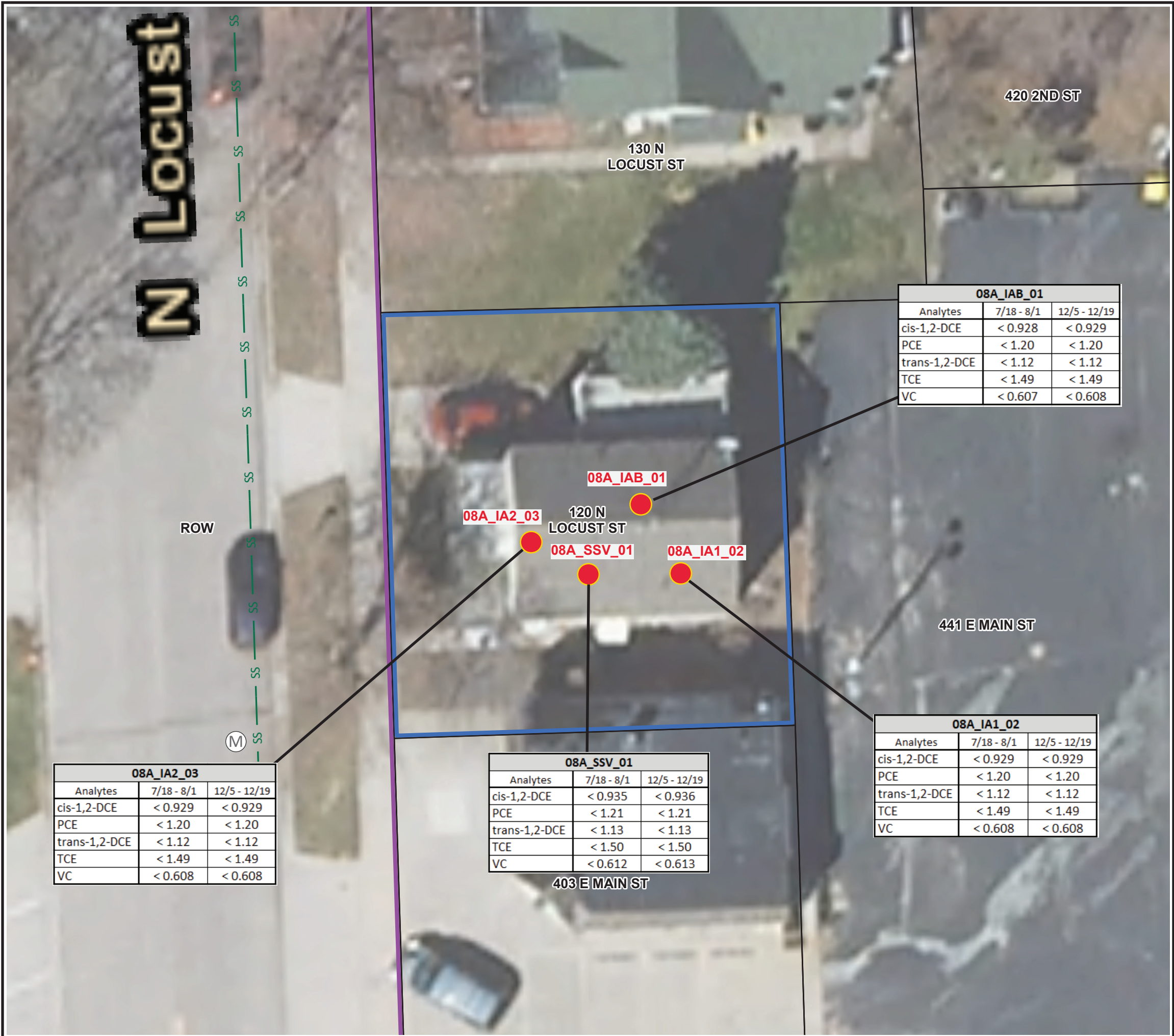
Map Projection: NAD 1983 UTM Zone 15N, Meters
 Basemap: WI DNR Aerial Imagery WMS, 10/14/2022



- (M) Manhole
- SS Sanitary Sewers
- 120 N Locust St (PSI A)
- 125 N Locust St (PSI B)
- 335 E Main St (PSI C)
- ROW (PSI R)
- 349 E Main St (Source)
- Parcel Boundaries



N Locust St



| 08A_IA2_03 | | |
|---------------|------------|--------------|
| Analytes | 7/18 - 8/1 | 12/5 - 12/19 |
| cis-1,2-DCE | < 0.929 | < 0.929 |
| PCE | < 1.20 | < 1.20 |
| trans-1,2-DCE | < 1.12 | < 1.12 |
| TCE | < 1.49 | < 1.49 |
| VC | < 0.608 | < 0.608 |

| 08A_SSV_01 | | |
|---------------|------------|--------------|
| Analytes | 7/18 - 8/1 | 12/5 - 12/19 |
| cis-1,2-DCE | < 0.935 | < 0.936 |
| PCE | < 1.21 | < 1.21 |
| trans-1,2-DCE | < 1.13 | < 1.13 |
| TCE | < 1.50 | < 1.50 |
| VC | < 0.612 | < 0.613 |

| 08A_IA1_02 | | |
|---------------|------------|--------------|
| Analytes | 7/18 - 8/1 | 12/5 - 12/19 |
| cis-1,2-DCE | < 0.929 | < 0.929 |
| PCE | < 1.20 | < 1.20 |
| trans-1,2-DCE | < 1.12 | < 1.12 |
| TCE | < 1.49 | < 1.49 |
| VC | < 0.608 | < 0.608 |

| 08A_IAB_01 | | |
|---------------|------------|--------------|
| Analytes | 7/18 - 8/1 | 12/5 - 12/19 |
| cis-1,2-DCE | < 0.928 | < 0.929 |
| PCE | < 1.20 | < 1.20 |
| trans-1,2-DCE | < 1.12 | < 1.12 |
| TCE | < 1.49 | < 1.49 |
| VC | < 0.607 | < 0.608 |

Figure 2A

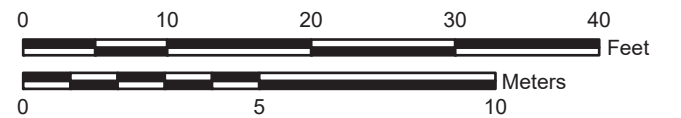
Site Map

Reedsburg Cleaners
WDNR ERP Case #: 02-57-001682
WDNR PS Act. ID: VIZC_REEDSBURG

120 N Locust Street
 Reedsburg, WI 53959



Map Projection: NAD 1983 UTM Zone 15N, Meters
 Basemap: WI DNR Aerial Imagery WMS, 10/14/2022



- (M) Manhole
- SS Sanitary Sewer
- [Blue Outline] 120 N Locust St (PSI A)
- [Purple Outline] ROW (PSI R)
- [Black Outline] Parcel Boundaries

Features

- [Red Dot] Passive Vapor Sample Location

Notes:

All results are in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)
 < – Less than the laboratory Reporting Limit (RL)

Bold – Analyte detected

Grey – Result exceeds the Residential VAL

Orange – Result exceeds the Residential VRSL



APPENDIX A

Wisconsin Department of Natural Resources
ACCESS PERMISSION AGREEMENT



I, Lee Gnatzig (Print Name) hereby give permission to the Wisconsin Department of Natural Resources (DNR) and its employees, duly authorized representatives, agents and contractors, to enter upon and have access at reasonable times to the home/business located at

(ADDRESS) 120 N Locust

and that is owned by Lee Roxanne Gnatzig (Print as Listed on Title / County GIS)

The property is located in the SE 1/4 of the NW 1/4 of Sec 10, T12N, R04E, Sauk County, Wisconsin. The access permission is for the following purposes: The DNR may perform an investigation of the home/business for vapor migration from trichloroethylene (TCE) and tetrachloroethylene (PCE) located in groundwater, associated with the Reedsburg Cleaners Site, BRRTS #02-57-001682 located near your property. This permission allows the DNR or its authorized representative to:

- (1) Install and maintain sub-slab vapor probe(s) into the foundation of the home or business.
- (2) Collect at least three (3) separate vapor samples from the sub-slab probe(s) at different times of the year.
- (3) Collect indoor air samples on each level of the home or business and within the sealed sump headspace, if applicable.
- (4) Collect water sample(s) from the sump, if applicable.
- (5) Abandon the vapor probe(s) when no longer needed.

The permission that is granted shall remain in effect for one year from the signature date when the vapor investigation work is expected to be complete. If an extension is necessary to complete the work, DNR will inform you in writing.

The property owner agrees not to damage or interfere with the use of any sub-slab probe installed as permitted herein.

IN WITNESS WHEREOF:

Lee Gnatzig
Signature of Property Owner Representative

5-3-23
Signature Date

Lee Gnatzig
Print Name, Title

Lee Gnatzig@gmail.com
Email address

Pox 101 Reedsburg, WI 53959
Mailing Address of Owner

6089635266
Area Code and Telephone Number

TENANT(S) / LESSEE(S) by UNIT NUMBER, ETC.

HANNA ANDONO
Name of Tenant(s)/Lessee(s)

608 415 2046
Tenant(s) phone number

Tenant(s) email address

Mail or email correspondence regarding this site to:
Department of Natural Resources
ATTN: Rob Hoverman
1027 West St. Paul Avenue
Milwaukee, WI 53233-2641
Robert.Hoverman@wisconsin.gov
Phone: 414.497.0896

APPENDIX B



Beacon Environmental

2203A Commerce Road, Suite 1

Forest Hill, MD 21050 USA

1.410.838.8780

CERTIFICATE OF ANALYSIS

Beacon Proposal No.: 230427H01

Laboratory Work Order: 0007389

Project Description:

Reedsburg Cleaners (PSI A)

Reedsburg, WI

Prepared for:

Jason Kunze

Bay West LLC

5 Empire Drive

St. Paul, MN 55103

Ryan W. Schneider
Senior Project Manager

January 02, 2024

All data meet requirements as specified in the Beacon Environmental Quality Assurance Project Plan and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

Steven C. Thornley
Laboratory Director

Peter B. Kelly
Quality Manager

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Bay West LLC
5 Empire Drive
St. Paul, MN 55103**Site Name:** Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze**Beacon Proposal:** 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024**Sample Summary**

| Lab Sample ID | Client Sample ID | Received | Analysis | Matrix |
|---------------|------------------------|------------|-----------------|----------|
| 0007389-01 | 08A_SSV_01_20231219 | 12/20/2023 | TO-17 (Passive) | Soil Gas |
| Sampler Type: | Beacon Passive Sampler | | | |

Project Completeness**Samples Received:** 1**Samples Analyzed:** 1

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Case Narrative

U.S. EPA Method TO-17

All samples were analyzed using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation following U.S. EPA Method TO-17, with laboratory results provided in nanograms (ng) and micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Laboratory QA/QC procedures included internal standards, surrogates, and blanks based on EPA Method TO-17. Analyses and reporting were under BEACON's Quality Assurance Project Plan.

Passive Soil-Gas Survey Notes

If sample locations are covered with or near the edge of an impervious surface (*e.g.*, asphalt or concrete), the concentrations of compounds in soil gas are higher than if the surfacing was not present. Therefore, the sample location conditions should be considered when comparing results between locations.

Survey findings are exclusive to this project and when the spatial relationships are compared with results of other BEACON Surveys it is necessary to incorporate information from both investigations (*e.g.*, depth to sources, soil types, porosity, soil moisture, presence of impervious surfacing, sample collection times).

Reporting Limits

The RLs represent a baseline above which results meet laboratory-determined limits of precision and accuracy. All reported results are within the calibration range. The project method quantitation limit (MQL) is the limit of quantitation (LOQ) as noted in the data tables. Beacon determined uptake rates for a suite of compounds with the Beacon sampler for sampling in air. Beacon calculated the uptake rates for the remaining compounds using Graham's Law of Diffusion. The reported data includes LOQ limits.

Discussion

Samples were received in proper condition and laboratory control parameters were met unless otherwise noted below. The work performed was in accordance with ISO/IEC 17025:2017.

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Analytical Results

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Detailed Analytical Results

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Detailed Analytical Results- Mass

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Lab Sample ID: 0007389-01

08A_SSV_01_20231219

Method: TO-17 (Passive)

Soil Gas

| Analyte | CAS# | Result (ng) Q | LOQ (ng) | Analyzed | File ID | |
|-------------------------------|------------|------------------|-----------------|------------------|------------------|-------------|
| Vinyl Chloride | 75-01-4 | <10.0 | 10.0 | 12/21/2023 16:34 | C23122105.D | |
| trans-1,2-Dichloroethene | 156-60-5 | <10.0 | 10.0 | 12/21/2023 16:34 | C23122105.D | |
| cis-1,2-Dichloroethene | 156-59-2 | <10.0 | 10.0 | 12/21/2023 16:34 | C23122105.D | |
| Trichloroethene | 79-01-6 | <10.0 | 10.0 | 12/21/2023 16:34 | C23122105.D | |
| Tetrachloroethene | 127-18-4 | <10.0 | 10.0 | 12/21/2023 16:34 | C23122105.D | |
| Analyte | CAS# | % Recovery | Recovery Limits | Q | Analyzed | File ID |
| Surrogate: 1,2-DCA-d4 | 17060-07-0 | 89.5% | 70-130 | | 12/21/2023 16:34 | C23122105.D |
| Surrogate: Toluene-d8 | 2037-26-5 | 98.1% | 70-130 | | 12/21/2023 16:34 | C23122105.D |
| Surrogate: Bromofluorobenzene | 460-00-4 | 88.8% | 70-130 | | 12/21/2023 16:34 | C23122105.D |

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Detailed Analytical Results- Concentration

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Lab Sample ID: 0007389-01

08A_SSV_01_20231219

Method: TO-17 (Passive)

Soil Gas

| Analyte | CAS# | Result (µg/m ³) | Q | LOQ (µg/m ³) | Analyzed | File ID |
|-------------------------------|------------|--------------------------------|-----------------|-----------------------------|------------------|-------------|
| Vinyl Chloride | 75-01-4 | <0.613 | | 0.613 | 12/21/2023 16:34 | C23122105.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.13 | | 1.13 | 12/21/2023 16:34 | C23122105.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.936 | | 0.936 | 12/21/2023 16:34 | C23122105.D |
| Trichloroethene | 79-01-6 | <1.50 | | 1.50 | 12/21/2023 16:34 | C23122105.D |
| Tetrachloroethene | 127-18-4 | <1.21 | | 1.21 | 12/21/2023 16:34 | C23122105.D |
| Analyte | CAS# | % Recovery | Recovery Limits | Q | Analyzed | File ID |
| Surrogate: 1,2-DCA-d4 | 17060-07-0 | 89.5% | 70-130 | | 12/21/2023 16:34 | C23122105.D |
| Surrogate: Toluene-d8 | 2037-26-5 | 98.1% | 70-130 | | 12/21/2023 16:34 | C23122105.D |
| Surrogate: Bromofluorobenzene | 460-00-4 | 88.8% | 70-130 | | 12/21/2023 16:34 | C23122105.D |

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

QC Information/Summary

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Organics in Air by EPA TO-17 Using Beacon Sampler (mass) - Quality Control Summary

Sequence: B23L064 - Batch: 23L0060 - Instrument: C System - File ID: C23122102.D
23L0060-BS1 (LCS, Calibration Source Verification)

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride | 50.3 | 10 | ng | 50.0 | | 101 | 70-130 | | | |
| trans-1,2-Dichloroethene | 48.8 | 10 | ng | 50.0 | | 97.6 | 70-130 | | | |
| cis-1,2-Dichloroethene | 48.0 | 10 | ng | 50.0 | | 96.1 | 70-130 | | | |
| Trichloroethene | 50.4 | 10 | ng | 50.0 | | 101 | 70-130 | | | |
| Tetrachloroethene | 44.6 | 10 | ng | 50.0 | | 89.3 | 70-130 | | | |
| <i>Surrogate: 1,2-DCA-d4</i> | <i>47.2</i> | | <i>ng</i> | <i>50.0</i> | | <i>94.4</i> | <i>70-130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>49.9</i> | | <i>ng</i> | <i>50.0</i> | | <i>99.9</i> | <i>70-130</i> | | | |
| <i>Surrogate: Bromofluorobenzene</i> | <i>47.9</i> | | <i>ng</i> | <i>50.0</i> | | <i>95.7</i> | <i>70-130</i> | | | |

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23L064 - Batch: 23L0060 - Instrument: C System - File ID: C23122103.D
23L0060-BLK1 (Lab Blank)

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-------|-------------------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride | <0.613 | 0.613 | µg/m ³ | | | | | | | U |
| trans-1,2-Dichloroethene | <1.13 | 1.13 | µg/m ³ | | | | | | | U |
| cis-1,2-Dichloroethene | <0.936 | 0.936 | µg/m ³ | | | | | | | U |
| Trichloroethene | <1.50 | 1.50 | µg/m ³ | | | | | | | U |
| Tetrachloroethene | <1.21 | 1.21 | µg/m ³ | | | | | | | U |
| <i>Surrogate: 1,2-DCA-d4</i> | <i>91.7</i> | | <i>ng</i> | <i>100</i> | | <i>91.7</i> | <i>70-130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>101</i> | | <i>ng</i> | <i>100</i> | | <i>101</i> | <i>70-130</i> | | | |
| <i>Surrogate: Bromofluorobenzene</i> | <i>90.0</i> | | <i>ng</i> | <i>100</i> | | <i>90.0</i> | <i>70-130</i> | | | |

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Organics in Air by EPA TO-17 Using Beacon Sampler (mass) - Quality Control Summary

Sequence: B23L064 - Batch: 23L0060 - Instrument: C System - File ID: C23122103.D
23L0060-BLK1 (Lab Blank)

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride | <5.0 | 10 | ng | | | | | | | U |
| trans-1,2-Dichloroethene | <5.0 | 10 | ng | | | | | | | U |
| cis-1,2-Dichloroethene | <5.0 | 10 | ng | | | | | | | U |
| Trichloroethene | <5.0 | 10 | ng | | | | | | | U |
| Tetrachloroethene | <5.0 | 10 | ng | | | | | | | U |
| <i>Surrogate: 1,2-DCA-d4</i> | <i>91.7</i> | | <i>ng</i> | <i>100</i> | | <i>91.7</i> | <i>70-130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>101</i> | | <i>ng</i> | <i>100</i> | | <i>101</i> | <i>70-130</i> | | | |
| <i>Surrogate: Bromofluorobenzene</i> | <i>90.0</i> | | <i>ng</i> | <i>100</i> | | <i>90.0</i> | <i>70-130</i> | | | |

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Organics in Air by EPA TO-17 Using Beacon Sampler (mass) - Quality Control Summary

Sequence: B23L064 - Instrument: C System - File ID: C23122104.D
B23L064-ICV1 (LCSD/Second Source Verification/CALV)

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride | 54.4 | 10 | ng | 50.0 | | 109 | 70-130 | | | |
| trans-1,2-Dichloroethene | 51.1 | 10 | ng | 50.0 | | 102 | 70-130 | | | |
| cis-1,2-Dichloroethene | 49.2 | 10 | ng | 50.0 | | 98.3 | 70-130 | | | |
| Trichloroethene | 49.7 | 10 | ng | 50.0 | | 99.5 | 70-130 | | | |
| Tetrachloroethene | 49.6 | 10 | ng | 50.0 | | 99.1 | 70-130 | | | |
| <i>Surrogate: 1,2-DCA-d4</i> | <i>46.2</i> | | <i>ng</i> | <i>50.0</i> | | <i>92.5</i> | <i>70-130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>54.7</i> | | <i>ng</i> | <i>50.0</i> | | <i>109</i> | <i>70-130</i> | | | |
| <i>Surrogate: Bromofluorobenzene</i> | <i>46.3</i> | | <i>ng</i> | <i>50.0</i> | | <i>92.6</i> | <i>70-130</i> | | | |

| | | |
|---|--|--|
| Bay West LLC 5 Empire Drive St. Paul, MN 55103 | Site Name: Reedsburg Cleaners (PSI A) Site Location: Reedsburg, WI Project Manager: Jason Kunze | Beacon Proposal: 230427H01 Lab Work Order: 0007389 Reported: 01/02/2024 |
|---|--|--|

Organics in Air by EPA TO-17 Using Beacon Sampler (mass) - Quality Control Summary

Sequence: B23L064 - Instrument: C System - File ID: C23122124.D

B23L064-CCV1 (LCS, Closing Calibration Verification)

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride | 39.7 | 10 | ng | 50.0 | | 79.5 | 70-130 | | | |
| trans-1,2-Dichloroethene | 49.3 | 10 | ng | 50.0 | | 98.6 | 70-130 | | | |
| cis-1,2-Dichloroethene | 48.7 | 10 | ng | 50.0 | | 97.4 | 70-130 | | | |
| Trichloroethene | 49.9 | 10 | ng | 50.0 | | 99.8 | 70-130 | | | |
| Tetrachloroethene | 47.3 | 10 | ng | 50.0 | | 94.7 | 70-130 | | | |
| <i>Surrogate: 1,2-DCA-d4</i> | <i>45.0</i> | | <i>ng</i> | <i>50.0</i> | | <i>90.0</i> | <i>70-130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>51.3</i> | | <i>ng</i> | <i>50.0</i> | | <i>103</i> | <i>70-130</i> | | | |
| <i>Surrogate: Bromofluorobenzene</i> | <i>45.8</i> | | <i>ng</i> | <i>50.0</i> | | <i>91.7</i> | <i>70-130</i> | | | |

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23L064 - Instrument: C System - File ID: C23122125.D
B23L064-CCB1 (Lab Blank)

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride | <5 | 10 | ng | | | | | | | U |
| trans-1,2-Dichloroethene | <5 | 10 | ng | | | | | | | U |
| cis-1,2-Dichloroethene | <5 | 10 | ng | | | | | | | U |
| Trichloroethene | <5 | 10 | ng | | | | | | | U |
| Tetrachloroethene | <5 | 10 | ng | | | | | | | U |
| <i>Surrogate: 1,2-DCA-d4</i> | <i>89.6</i> | | <i>ng</i> | <i>100</i> | | <i>89.6</i> | <i>70-130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>99.0</i> | | <i>ng</i> | <i>100</i> | | <i>99.0</i> | <i>70-130</i> | | | |
| <i>Surrogate: Bromofluorobenzene</i> | <i>91.0</i> | | <i>ng</i> | <i>100</i> | | <i>91.0</i> | <i>70-130</i> | | | |

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

TO-17 (Passive) - LCS/LCSD RPD Quality Control Summary
LCS: 23L0060-BS1 File ID: C23122102.D

Analyzed: 12/21/23 16:06

LCSD: B23L064-ICV1 File ID: C23122104.D

Analyzed: 12/21/23 15:19

| Analyte | CAS# | LCS Result (ng) | %REC Q | Spike Level (ng) | LCSD Result (ng) | %REC | %REC Limits | RPD | RPD Limit | Q |
|--------------------------|----------|--------------------|-----------|---------------------|---------------------|--------|----------------|-------|--------------|---|
| Vinyl Chloride | 75-01-4 | 50.31 | 100.62 | 50 | 54.41 | 109.00 | 70-130 | 7.83 | 30 | |
| trans-1,2-Dichloroethene | 156-60-5 | 48.78 | 97.56 | 50 | 51.1 | 102.00 | 70-130 | 4.65 | 30 | |
| cis-1,2-Dichloroethene | 156-59-2 | 48.03 | 96.06 | 50 | 49.15 | 98.30 | 70-130 | 2.31 | 30 | |
| Trichloroethene | 79-01-6 | 50.37 | 100.74 | 50 | 49.74 | 99.50 | 70-130 | 1.26 | 30 | |
| Tetrachloroethene | 127-18-4 | 44.63 | 89.26 | 50 | 49.56 | 99.10 | 70-130 | 10.47 | 30 | |

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Additional QC Information

| | | |
|---|--|--|
| Bay West LLC 5 Empire Drive St. Paul, MN 55103 | Site Name: Reedsburg Cleaners (PSI A) Site Location: Reedsburg, WI Project Manager: Jason Kunze | Beacon Proposal: 230427H01 Lab Work Order: 0007389 Reported: 01/02/2024 |
|---|--|--|

Sample Result Calculation Summary (Concentration)
TO-17 (Passive)

| Analyte | t Sampling Time minutes | DF Dilution Factor | Uc Uptake Rate | M Initial Result ng | C Calculated Result µg/m³ | File ID |
|---------|-------------------------------|--------------------------|----------------------|---------------------------|---------------------------------|---------|
|---------|-------------------------------|--------------------------|----------------------|---------------------------|---------------------------------|---------|

Lab ID: 0007389-01 **Sample Name:** 08A_SSV_01_20231219

| | | | | | | |
|--------------------------|--------|------|-------|---|---|-------------|
| Vinyl Chloride | 20,153 | 1.00 | 0.810 | U | U | C23122105.D |
| trans-1,2-Dichloroethene | 20,153 | 1.00 | 0.440 | U | U | C23122105.D |
| cis-1,2-Dichloroethene | 20,153 | 1.00 | 0.530 | U | U | C23122105.D |
| Trichloroethene | 20,153 | 1.00 | 0.330 | U | U | C23122105.D |
| Tetrachloroethene | 20,153 | 1.00 | 0.410 | U | U | C23122105.D |

Calculations:

$$C = \frac{1000 \times M \times DF}{U_c \times t}$$

$$U_c = U * \left(\frac{T_s + 273.15}{T_u + 273.15} \right)^{1/2}$$

- where:
- C = concentration (µg/m³)
 - M = mass (ng)
 - DF = dilution factor
 - Uc = uptake rate (ml/min), corrected
 - t = sampling time (minutes)
 - U = compound specific uptake rate
 - Tu = uptake rate study temperature
 - Ts = sample average temperature

Note: Tu is 16.65°C

Reference: Federal Register/Vol. 79, No. 125/June 30, 2014

| | | |
|---|--|--|
| Bay West LLC 5 Empire Drive St. Paul, MN 55103 | Site Name: Reedsburg Cleaners (PSI A) Site Location: Reedsburg, WI Project Manager: Jason Kunze | Beacon Proposal: 230427H01 Lab Work Order: 0007389 Reported: 01/02/2024 |
|---|--|--|

Method Detection and Reporting Limit Calculations (Concentration)

TO-17 (Passive)

| Analyte | t Sampling Time minutes | DF Dilution Factor | Uc Uptake Rate | M Initial LOQ ng | C Calculated LOQ µg/m ³ |
|---------|-------------------------------|--------------------------|----------------------|------------------------|--|
|---------|-------------------------------|--------------------------|----------------------|------------------------|--|

| | |
|---------------------------|---|
| Lab ID: 0007389-01 | Sample Name: 08A_SSV_01_20231219 |
|---------------------------|---|

| | | | | | |
|--------------------------|--------|------|-------|------|-------|
| Vinyl Chloride | 20,153 | 1.00 | 0.810 | 10.0 | 0.613 |
| trans-1,2-Dichloroethene | 20,153 | 1.00 | 0.440 | 10.0 | 1.13 |
| cis-1,2-Dichloroethene | 20,153 | 1.00 | 0.530 | 10.0 | 0.936 |
| Trichloroethene | 20,153 | 1.00 | 0.330 | 10.0 | 1.50 |
| Tetrachloroethene | 20,153 | 1.00 | 0.410 | 10.0 | 1.21 |

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Laboratory Certification List

| Certification ID | Certification No. | Description | Expires | Project Required |
|--------------------|-------------------|---|------------|------------------|
| Alaska CS-LAP | 19-002 | Alaska Department of Environmental Conservation | 12/30/2024 | |
| DoD-ELAP | 72690/L22-563 | United States Department of Defense Environmental Laboratory Accreditation | 11/30/2024 | |
| ISO/IEC 17025:2017 | 72690/L22-563 | General Requirements for the Competence of Testing and Calibration Laboratories | 11/30/2024 | |
| NEFAP | 72690/L22-564 | TNI National Environmental Field Activities Program (NEFAP) | 11/30/2024 | |
| NY-NELAC | 12097 | New York Department of Health | 04/01/2024 | |
| Utah-NELAC | MD010912022-12 | Utah Department of Health | 12/31/2023 | |

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Qualifiers/Notes and Definitions

General Definitions:

| | |
|-----------|--|
| DF | Dilution Factor |
| DL | Detection Limit |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| NA | Not Applicable |
| Q | Qualifier |
| RPD | Relative Percent Difference |
| RT | Retention Times in Minutes |
| RRT | Evaluation of Relative Retention Times in RRT Units (qualified if outside ± 0.06 control limits) |
| 3σ | Uncertainty |
| ∉ | Compound not on scope of accreditation |
| + | values are outside method/contract required QC limits |
| ∅ | Compound not on scope of accreditation and analyzed with a one-point calibration |

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007389
Reported: 01/02/2024

Sample Management Records

| Project Information | | | | Client Information | | | |
|--|------------|---|-----------|--|---|--|--|
| Site Name: Reedsburg Cleaners (ERP 0257001682) | | Company Name: Bay West LLC | | Project Manager: Jason Kunze (jkunze@baywest.com) | | | |
| Site Location: 120 N Locust St (PSI A) | | Office Location: 5 Empire Drive, St. Paul, MN 55103 | | Client PO: J230382 / PO1309 | | | |
| | | Submitted by: Anders Santelman | | Turn-around time (check one): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush (specify) ___ days | | | |
| | | Email: asantelman@baywest.com | | | | | |
| Field Sample ID | Start Date | Start Time | Stop Date | Stop Time | Sampling Hole Depth <input type="checkbox"/> cm <input checked="" type="checkbox"/> inches | Surface Type (Soil, Asphalt, Concrete, Gravel) | Optional Information (Location Description, Sample Condition, PID / FID Readings, etc) |
| 08A_SSV_01_20231219 | 12/5/23 | 0915 | 12/19/23 | 0908 | 5 inches | Concrete | A_SSV_01 |
| | | | | | | | |
| Special Instructions: Analytes: PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride | | | | | | | |
| Relinquished by (signature): | | Date / Time: 12/19/23 1300 | | Received by (signature): | | Date / Time: 12-20-23 1456 | |
| Relinquished by (signature): | | Date / Time: | | Received by (signature): | | Date / Time: | |
| For Lab Use Only | | Beacon Job No: 7389 | | Beacon Proposal: 230427H01 | | Analytical Method: | |
| Courier Name: <i>Fedex</i> | | Shipment Condition: <i>good</i> | | Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> n/a | | Custody Seal No: 5722458 | |



Beacon Environmental

2203A Commerce Road, Suite 1

Forest Hill, MD 21050 USA

1.410.838.8780

CERTIFICATE OF ANALYSIS

Beacon Proposal No.: 230427H01

Laboratory Work Order: 0007393

Project Description:

Reedsburg Cleaners (PSI A)

Reedsburg, WI

Prepared for:

Jason Kunze

Bay West LLC

5 Empire Drive

St. Paul, MN 55103

Ryan W. Schneider
Senior Project Manager

January 02, 2024

All data meet requirements as specified in the Beacon Environmental Quality Assurance Project Plan and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

Steven C. Thornley
Laboratory Director

Peter B. Kelly
Quality Manager

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Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Sample Summary

| Lab Sample ID | Client Sample ID | Received | Analysis | Matrix |
|--|---------------------|------------|-----------------|------------|
| 0007393-01 Sampler Type: Beacon Passive Sampler | 08A_IAB_01_20231219 | 12/20/2023 | TO-17 (Passive) | Indoor Air |
| 0007393-02 Sampler Type: Beacon Passive Sampler | 08A_IA1_02_20231219 | 12/20/2023 | TO-17 (Passive) | Indoor Air |
| 0007393-03 Sampler Type: Beacon Passive Sampler | 08A_IA2_03_20231219 | 12/20/2023 | TO-17 (Passive) | Indoor Air |

Project Completeness
Samples Received: 3
Samples Analyzed: 3

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Case Narrative

Beacon Environmental provided thermally conditioned Beacon Samplers for sampling, with analyses following U.S. EPA Method TO-17, with analytical results reported in $\mu\text{g}/\text{m}^3$. Beacon calculated concentration results using the exposure period, target analyte mass, and the following procedures detailed in ISO 16017-2, *Indoor, ambient and workplace air-Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography-Part 2: Diffusive sampling*.

Beacon reports results and reporting limits to three significant digits.

Reporting Limits (RLs)

The RLs represent a baseline above which results meet laboratory-determined limits of precision and accuracy. Beacon performed dilution analysis when results exceeded the upper calibration limit, bringing all reported results within the calibration range. The project method quantitation limit (MQL) is the limit of quantitation (LOQ) as noted in the data tables. The reported data includes LOQ limits.

Calibration Verification

All continuing calibration verification (CCV) values are within $\pm 30\%$ of the true values as defined by the initial calibration and met the requirements specified in BEACON's Quality Manual.

Internal Standards and Surrogates

Internal standards and surrogates are spiked on all blanks (ICB, BLK), field samples and laboratory control samples (ICV/CALV, BS, ICV and CCV). Acceptance criteria for internal standards are 60 to 140 percent and surrogate recoveries are 70 to 130 percent; all internal standards and surrogates are within the acceptance criteria unless noted in the **Case Narrative**.

Blank Contamination

No targeted compounds above the project method quantitation limit (MQL) for each compound were observed in the Laboratory Method Blanks unless noted in the **Case Narrative**.

Laboratory Control Samples

Acceptance criteria for surrogate and analytes recoveries are 70 to 130 percent; all recoveries are within the acceptance criteria unless noted in the **Case Narrative**.

Discussion

Samples were received in proper condition and laboratory control parameters were met unless otherwise noted below. The work performed was in accordance with ISO/IEC 17025:2017.

End of Case Narrative

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Analytical Results

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Detailed Analytical Results

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Lab Sample ID: 0007393-01

08A_IAB_01_20231219

Method: TO-17 (Passive)

Indoor Air

| Analyte | CAS# | Result (µg/m ³) | Q | LOQ (µg/m ³) | Analyzed | File ID |
|-------------------------------|------------|--------------------------------|-----------------|-----------------------------|------------------|-------------|
| Vinyl Chloride | 75-01-4 | <0.608 | | 0.608 | 12/22/2023 13:13 | C23122120.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.12 | | 1.12 | 12/22/2023 13:13 | C23122120.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.929 | | 0.929 | 12/22/2023 13:13 | C23122120.D |
| Trichloroethene | 79-01-6 | <1.49 | | 1.49 | 12/22/2023 13:13 | C23122120.D |
| Tetrachloroethene | 127-18-4 | <1.20 | | 1.20 | 12/22/2023 13:13 | C23122120.D |
| Analyte | CAS# | % Recovery | Recovery Limits | Q | Analyzed | File ID |
| Surrogate: 1,2-DCA-d4 | 17060-07-0 | 92.6% | 70-130 | | 12/22/2023 13:13 | C23122120.D |
| Surrogate: Toluene-d8 | 2037-26-5 | 100% | 70-130 | | 12/22/2023 13:13 | C23122120.D |
| Surrogate: Bromofluorobenzene | 460-00-4 | 96.7% | 70-130 | | 12/22/2023 13:13 | C23122120.D |

| | | |
|---|--|--|
| Bay West LLC 5 Empire Drive St. Paul, MN 55103 | Site Name: Reedsburg Cleaners (PSI A) Site Location: Reedsburg, WI Project Manager: Jason Kunze | Beacon Proposal: 230427H01 Lab Work Order: 0007393 Reported: 01/02/2024 |
|---|--|--|

| | | |
|---------------------------|----------------------------|-------------------------|
| Lab Sample ID: 0007393-02 | 08A_IA1_02_20231219 | Method: TO-17 (Passive) |
| Indoor Air | | |

| Analyte | CAS# | Result (µg/m ³) | Q | LOQ (µg/m ³) | Analyzed | File ID |
|-------------------------------|------------|--------------------------------|-----------------|-----------------------------|------------------|-------------|
| Vinyl Chloride | 75-01-4 | <0.608 | | 0.608 | 12/22/2023 13:41 | C23122121.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.12 | | 1.12 | 12/22/2023 13:41 | C23122121.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.929 | | 0.929 | 12/22/2023 13:41 | C23122121.D |
| Trichloroethene | 79-01-6 | <1.49 | | 1.49 | 12/22/2023 13:41 | C23122121.D |
| Tetrachloroethene | 127-18-4 | <1.20 | | 1.20 | 12/22/2023 13:41 | C23122121.D |
| Analyte | CAS# | % Recovery | Recovery Limits | Q | Analyzed | File ID |
| Surrogate: 1,2-DCA-d4 | 17060-07-0 | 86.0% | 70-130 | | 12/22/2023 13:41 | C23122121.D |
| Surrogate: Toluene-d8 | 2037-26-5 | 93.7% | 70-130 | | 12/22/2023 13:41 | C23122121.D |
| Surrogate: Bromofluorobenzene | 460-00-4 | 91.5% | 70-130 | | 12/22/2023 13:41 | C23122121.D |

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Lab Sample ID: 0007393-03

08A_IA2_03_20231219

Method: TO-17 (Passive)

Indoor Air

| Analyte | CAS# | Result (µg/m ³) | Q | LOQ (µg/m ³) | Analyzed | File ID |
|-------------------------------|------------|--------------------------------|-----------------|-----------------------------|------------------|-------------|
| Vinyl Chloride | 75-01-4 | <0.608 | | 0.608 | 12/22/2023 14:08 | C23122122.D |
| trans-1,2-Dichloroethene | 156-60-5 | <1.12 | | 1.12 | 12/22/2023 14:08 | C23122122.D |
| cis-1,2-Dichloroethene | 156-59-2 | <0.929 | | 0.929 | 12/22/2023 14:08 | C23122122.D |
| Trichloroethene | 79-01-6 | <1.49 | | 1.49 | 12/22/2023 14:08 | C23122122.D |
| Tetrachloroethene | 127-18-4 | <1.20 | | 1.20 | 12/22/2023 14:08 | C23122122.D |
| Analyte | CAS# | % Recovery | Recovery Limits | Q | Analyzed | File ID |
| Surrogate: 1,2-DCA-d4 | 17060-07-0 | 91.7% | 70-130 | | 12/22/2023 14:08 | C23122122.D |
| Surrogate: Toluene-d8 | 2037-26-5 | 96.0% | 70-130 | | 12/22/2023 14:08 | C23122122.D |
| Surrogate: Bromofluorobenzene | 460-00-4 | 92.1% | 70-130 | | 12/22/2023 14:08 | C23122122.D |

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

QC Information/Summary

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23L064 - Batch: 23L0060 - Instrument: C System - File ID: C23122102.D
23L0060-BS1 (LCS, Calibration Source Verification)

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride | 50.3 | 10 | ng | 50.0 | | 101 | 70-130 | | | |
| trans-1,2-Dichloroethene | 48.8 | 10 | ng | 50.0 | | 97.6 | 70-130 | | | |
| cis-1,2-Dichloroethene | 48.0 | 10 | ng | 50.0 | | 96.1 | 70-130 | | | |
| Trichloroethene | 50.4 | 10 | ng | 50.0 | | 101 | 70-130 | | | |
| Tetrachloroethene | 44.6 | 10 | ng | 50.0 | | 89.3 | 70-130 | | | |
| <i>Surrogate: 1,2-DCA-d4</i> | <i>47.2</i> | | <i>ng</i> | <i>50.0</i> | | <i>94.4</i> | <i>70-130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>49.9</i> | | <i>ng</i> | <i>50.0</i> | | <i>99.9</i> | <i>70-130</i> | | | |
| <i>Surrogate: Bromofluorobenzene</i> | <i>47.9</i> | | <i>ng</i> | <i>50.0</i> | | <i>95.7</i> | <i>70-130</i> | | | |

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23L064 - Batch: 23L0060 - Instrument: C System - File ID: C23122103.D
23L0060-BLK1 (Lab Blank)

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-------|-------------------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride | <0.608 | 0.608 | µg/m ³ | | | | | | | U |
| trans-1,2-Dichloroethene | <1.12 | 1.12 | µg/m ³ | | | | | | | U |
| cis-1,2-Dichloroethene | <0.929 | 0.929 | µg/m ³ | | | | | | | U |
| Trichloroethene | <1.49 | 1.49 | µg/m ³ | | | | | | | U |
| Tetrachloroethene | <1.20 | 1.20 | µg/m ³ | | | | | | | U |
| <i>Surrogate: 1,2-DCA-d4</i> | <i>91.7</i> | | <i>ng</i> | <i>100</i> | | <i>91.7</i> | <i>70-130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>101</i> | | <i>ng</i> | <i>100</i> | | <i>101</i> | <i>70-130</i> | | | |
| <i>Surrogate: Bromofluorobenzene</i> | <i>90.0</i> | | <i>ng</i> | <i>100</i> | | <i>90.0</i> | <i>70-130</i> | | | |

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23L064 - Instrument: C System - File ID: C23122104.D
B23L064-ICV1 (LCSD/Second Source Verification/CALV)

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride | 54.4 | 10 | ng | 50.0 | | 109 | 70-130 | | | |
| trans-1,2-Dichloroethene | 51.1 | 10 | ng | 50.0 | | 102 | 70-130 | | | |
| cis-1,2-Dichloroethene | 49.2 | 10 | ng | 50.0 | | 98.3 | 70-130 | | | |
| Trichloroethene | 49.7 | 10 | ng | 50.0 | | 99.5 | 70-130 | | | |
| Tetrachloroethene | 49.6 | 10 | ng | 50.0 | | 99.1 | 70-130 | | | |
| <i>Surrogate: 1,2-DCA-d4</i> | <i>46.2</i> | | <i>ng</i> | <i>50.0</i> | | <i>92.5</i> | <i>70-130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>54.7</i> | | <i>ng</i> | <i>50.0</i> | | <i>109</i> | <i>70-130</i> | | | |
| <i>Surrogate: Bromofluorobenzene</i> | <i>46.3</i> | | <i>ng</i> | <i>50.0</i> | | <i>92.6</i> | <i>70-130</i> | | | |

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23L064 - Instrument: C System - File ID: C23122124.D
B23L064-CCV1 (LCS, Closing Calibration Verification)

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride | 39.7 | 10 | ng | 50.0 | | 79.5 | 70-130 | | | |
| trans-1,2-Dichloroethene | 49.3 | 10 | ng | 50.0 | | 98.6 | 70-130 | | | |
| cis-1,2-Dichloroethene | 48.7 | 10 | ng | 50.0 | | 97.4 | 70-130 | | | |
| Trichloroethene | 49.9 | 10 | ng | 50.0 | | 99.8 | 70-130 | | | |
| Tetrachloroethene | 47.3 | 10 | ng | 50.0 | | 94.7 | 70-130 | | | |
| <i>Surrogate: 1,2-DCA-d4</i> | <i>45.0</i> | | <i>ng</i> | <i>50.0</i> | | <i>90.0</i> | <i>70-130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>51.3</i> | | <i>ng</i> | <i>50.0</i> | | <i>103</i> | <i>70-130</i> | | | |
| <i>Surrogate: Bromofluorobenzene</i> | <i>45.8</i> | | <i>ng</i> | <i>50.0</i> | | <i>91.7</i> | <i>70-130</i> | | | |

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B23L064 - Instrument: C System - File ID: C23122125.D
B23L064-CCB1 (Lab Blank)

| Analyte | Result | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-------------|-----|-----------|-------------|---------------|-------------|---------------|-----|-----------|-------|
| Vinyl Chloride | <5 | 10 | ng | | | | | | | U |
| trans-1,2-Dichloroethene | <5 | 10 | ng | | | | | | | U |
| cis-1,2-Dichloroethene | <5 | 10 | ng | | | | | | | U |
| Trichloroethene | <5 | 10 | ng | | | | | | | U |
| Tetrachloroethene | <5 | 10 | ng | | | | | | | U |
| <i>Surrogate: 1,2-DCA-d4</i> | <i>89.6</i> | | <i>ng</i> | <i>100</i> | | <i>89.6</i> | <i>70-130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>99.0</i> | | <i>ng</i> | <i>100</i> | | <i>99.0</i> | <i>70-130</i> | | | |
| <i>Surrogate: Bromofluorobenzene</i> | <i>91.0</i> | | <i>ng</i> | <i>100</i> | | <i>91.0</i> | <i>70-130</i> | | | |

| | | |
|---|--|--|
| Bay West LLC 5 Empire Drive St. Paul, MN 55103 | Site Name: Reedsburg Cleaners (PSI A) Site Location: Reedsburg, WI Project Manager: Jason Kunze | Beacon Proposal: 230427H01 Lab Work Order: 0007393 Reported: 01/02/2024 |
|---|--|--|

TO-17 (Passive) - LCS/LCSD RPD Quality Control Summary

LCS: 23L0060-BS1 File ID: C23122102.D
LCSD: B23L064-ICV1 File ID: C23122104.D

Analyzed: 12/21/23 16:06
 Analyzed: 12/21/23 15:19

| Analyte | CAS# | LCS Result (ng) | %REC Q | Spike Level (ng) | LCSD Result (ng) | %REC | %REC Limits | RPD | RPD Limit | Q |
|--------------------------|----------|--------------------|-----------|---------------------|---------------------|--------|----------------|-------|--------------|---|
| Vinyl Chloride | 75-01-4 | 50.31 | 100.62 | 50 | 54.41 | 109.00 | 70-130 | 7.83 | 30 | |
| trans-1,2-Dichloroethene | 156-60-5 | 48.78 | 97.56 | 50 | 51.1 | 102.00 | 70-130 | 4.65 | 30 | |
| cis-1,2-Dichloroethene | 156-59-2 | 48.03 | 96.06 | 50 | 49.15 | 98.30 | 70-130 | 2.31 | 30 | |
| Trichloroethene | 79-01-6 | 50.37 | 100.74 | 50 | 49.74 | 99.50 | 70-130 | 1.26 | 30 | |
| Tetrachloroethene | 127-18-4 | 44.63 | 89.26 | 50 | 49.56 | 99.10 | 70-130 | 10.47 | 30 | |

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Additional QC Information

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Sample Result Calculation Summary (Concentration)

TO-17 (Passive)

| Analyte | t Sampling Time minutes | DF Dilution Factor | Uc Uptake Rate | M Initial Result ng | C Calculated Result µg/m ³ | File ID |
|---------|-------------------------------|--------------------------|----------------------|---------------------------|---|---------|
|---------|-------------------------------|--------------------------|----------------------|---------------------------|---|---------|

| | | |
|---------------------------|---|---------------------------|
| Lab ID: 0007393-01 | Sample Name: 08A_IAB_01_20231219 | ̄ Temp (°C): 21.00 |
|---------------------------|---|---------------------------|

| | | | | | | |
|--------------------------|--------|------|-------|---|---|-------------|
| Vinyl Chloride | 20,154 | 1.00 | 0.816 | U | U | C23122120.D |
| trans-1,2-Dichloroethene | 20,154 | 1.00 | 0.443 | U | U | C23122120.D |
| cis-1,2-Dichloroethene | 20,154 | 1.00 | 0.534 | U | U | C23122120.D |
| Trichloroethene | 20,154 | 1.00 | 0.332 | U | U | C23122120.D |
| Tetrachloroethene | 20,154 | 1.00 | 0.413 | U | U | C23122120.D |

| | | |
|---------------------------|---|---------------------------|
| Lab ID: 0007393-02 | Sample Name: 08A_IA1_02_20231219 | ̄ Temp (°C): 21.00 |
|---------------------------|---|---------------------------|

| | | | | | | |
|--------------------------|--------|------|-------|---|---|-------------|
| Vinyl Chloride | 20,155 | 1.00 | 0.816 | U | U | C23122121.D |
| trans-1,2-Dichloroethene | 20,155 | 1.00 | 0.443 | U | U | C23122121.D |
| cis-1,2-Dichloroethene | 20,155 | 1.00 | 0.534 | U | U | C23122121.D |
| Trichloroethene | 20,155 | 1.00 | 0.332 | U | U | C23122121.D |
| Tetrachloroethene | 20,155 | 1.00 | 0.413 | U | U | C23122121.D |

| | | |
|---------------------------|---|---------------------------|
| Lab ID: 0007393-03 | Sample Name: 08A_IA2_03_20231219 | ̄ Temp (°C): 21.00 |
|---------------------------|---|---------------------------|

| | | | | | | |
|--------------------------|--------|------|-------|---|---|-------------|
| Vinyl Chloride | 20,154 | 1.00 | 0.816 | U | U | C23122122.D |
| trans-1,2-Dichloroethene | 20,154 | 1.00 | 0.443 | U | U | C23122122.D |
| cis-1,2-Dichloroethene | 20,154 | 1.00 | 0.534 | U | U | C23122122.D |
| Trichloroethene | 20,154 | 1.00 | 0.332 | U | U | C23122122.D |
| Tetrachloroethene | 20,154 | 1.00 | 0.413 | U | U | C23122122.D |

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Calculations:

$$C = \frac{1000 \times M \times DF}{U_c \times t}$$

$$U_c = U * \left(\frac{T_s + 273.15}{T_u + 273.15} \right)^{1/2}$$

where: C = concentration ($\mu\text{g}/\text{m}^3$)
M = mass (ng)
DF = dilution factor
U_c = uptake rate (ml/min), corrected
t = sampling time (minutes)
U = compound specific uptake rate
T_u = uptake rate study temperature
T_s = sample average temperature

Note: T_u is 16.65°C

Reference: Federal Register/Vol. 79, No. 125/June 30, 2014

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Method Detection and Reporting Limit Calculations (Concentration)
TO-17 (Passive)

| Analyte | t Sampling Time minutes | DF Dilution Factor | Uc Uptake Rate | M Initial LOQ ng | C Calculated LOQ µg/m ³ |
|---------|-------------------------------|--------------------------|----------------------|------------------------|--|
|---------|-------------------------------|--------------------------|----------------------|------------------------|--|

Lab ID: 0007393-01 **Sample Name:** 08A_IAB_01_20231219 **̄ Temp (°C):** 21.00

| | | | | | |
|--------------------------|--------|------|-------|------|-------|
| Vinyl Chloride | 20,154 | 1.00 | 0.816 | 10.0 | 0.608 |
| trans-1,2-Dichloroethene | 20,154 | 1.00 | 0.443 | 10.0 | 1.12 |
| cis-1,2-Dichloroethene | 20,154 | 1.00 | 0.534 | 10.0 | 0.929 |
| Trichloroethene | 20,154 | 1.00 | 0.332 | 10.0 | 1.49 |
| Tetrachloroethene | 20,154 | 1.00 | 0.413 | 10.0 | 1.20 |

Lab ID: 0007393-02 **Sample Name:** 08A_IA1_02_20231219 **̄ Temp (°C):** 21.00

| | | | | | |
|--------------------------|--------|------|-------|------|-------|
| Vinyl Chloride | 20,155 | 1.00 | 0.816 | 10.0 | 0.608 |
| trans-1,2-Dichloroethene | 20,155 | 1.00 | 0.443 | 10.0 | 1.12 |
| cis-1,2-Dichloroethene | 20,155 | 1.00 | 0.534 | 10.0 | 0.929 |
| Trichloroethene | 20,155 | 1.00 | 0.332 | 10.0 | 1.49 |
| Tetrachloroethene | 20,155 | 1.00 | 0.413 | 10.0 | 1.20 |

Lab ID: 0007393-03 **Sample Name:** 08A_IA2_03_20231219 **̄ Temp (°C):** 21.00

| | | | | | |
|--------------------------|--------|------|-------|------|-------|
| Vinyl Chloride | 20,154 | 1.00 | 0.816 | 10.0 | 0.608 |
| trans-1,2-Dichloroethene | 20,154 | 1.00 | 0.443 | 10.0 | 1.12 |
| cis-1,2-Dichloroethene | 20,154 | 1.00 | 0.534 | 10.0 | 0.929 |
| Trichloroethene | 20,154 | 1.00 | 0.332 | 10.0 | 1.49 |
| Tetrachloroethene | 20,154 | 1.00 | 0.413 | 10.0 | 1.20 |

Bay West LLC
 5 Empire Drive
 St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Laboratory Certification List

| Certification ID | Certification No. | Description | Expires | Project Required |
|--------------------|-------------------|---|------------|------------------|
| Alaska CS-LAP | 19-002 | Alaska Department of Environmental Conservation | 12/30/2024 | |
| DoD-ELAP | 72690/L22-563 | United States Department of Defense Environmental Laboratory Accreditation | 11/30/2024 | |
| ISO/IEC 17025:2017 | 72690/L22-563 | General Requirements for the Competence of Testing and Calibration Laboratories | 11/30/2024 | |
| NEFAP | 72690/L22-564 | TNI National Environmental Field Activities Program (NEFAP) | 11/30/2024 | |
| NY-NELAC | 12097 | New York Department of Health | 04/01/2024 | |
| Utah-NELAC | MD010912022-12 | Utah Department of Health | 12/31/2023 | |

Bay West LLC
5 Empire Drive
St. Paul, MN 55103**Site Name:** Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze**Beacon Proposal:** 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Qualifiers/Notes and Definitions

General Definitions:

| | |
|-----------|--|
| DF | Dilution Factor |
| DL | Detection Limit |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| NA | Not Applicable |
| Q | Qualifier |
| RPD | Relative Percent Difference |
| RT | Retention Times in Minutes |
| RRT | Evaluation of Relative Retention Times in RRT Units (qualified if outside ± 0.06 control limits) |
| 3σ | Uncertainty |
| ∉ | Compound not on scope of accreditation |
| + | values are outside method/contract required QC limits |
| ∅ | Compound not on scope of accreditation and analyzed with a one-point calibration |

Bay West LLC
5 Empire Drive
St. Paul, MN 55103

Site Name: Reedsburg Cleaners (PSI A)
Site Location: Reedsburg, WI
Project Manager: Jason Kunze

Beacon Proposal: 230427H01
Lab Work Order: 0007393
Reported: 01/02/2024

Sample Management Records

| Client Information | | Project Manager: Jason Kunze (jkunze@baywest.com) | | Client PO: J230382 / PO1309 | | INDOOR AIR | AMBIENT AIR | CRAWL SPACE | SEWER GAS | |
|--|---|---|--|--|---------------|----------------------------|-------------|-------------|-----------|--|
| Company: Bay West LLC | Project Name: Reedsburg Cleaners (ERP 0257001682) | | Turn around time (check one): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush (specify) ___ days | | | | | | | |
| Address: 5 Empire Dr. | Location: 120 N Locust St (PSI A) | | Analysis: <input checked="" type="checkbox"/> Method TO-17 <input type="checkbox"/> Method 8260C | | | | | | | |
| City / State / Zip: St. Paul, MN 55103 | Submitted by: Anders Santelman | | Email: asantelman@baywest.com | | | | | | | |
| Phone: 651-724-9757 | Email: asantelman@baywest.com | | | | | | | | | |
| Location ID | Start Date | Start Time | Stop Date | Stop Time | Aver Temp (C) | Notes | | | | |
| 08A_IAB_01_20231219 | 12/5/23 | 0921 | 12/19/23 | 0915 | 21 | A_IAB_01 | X | | | |
| 08A_IA1_02_20231219 | 12/5/23 | 0925 | 12/19/23 | 0920 | 21 | A_IA1_02 | X | | | |
| 08A_IA2_03_20231219 | 12/5/23 | 0929 | 12/19/23 | 0923 | 21 | A_IA2_03 | X | | | |
| | | | | | | | | | | |
| Special Notes / Instructions: Analytes: PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride | | | | | | | | | | |
| Relinquished by (signature): <i>[Signature]</i> | | Date / Time: 12/19/23 1300 | | Received by (signature): <i>[Signature]</i> | | Date / Time: 12-20-23 1456 | | | | |
| Relinquished by (signature): | | Date / Time: | | Received by (signature): | | Date / Time: | | | | |
| For Lab Use Only | | Beacon Job No: 7393 | | Beacon Proposal: 230427H01 | | | | | | |
| Courier Name: Fedex | | Shipment Condition: good | | Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> n/a | | Custody Seal No: 5722455 | | | | |

APPENDIX C

PASSIVE VAPOR SAMPLING INFORMATION

Project Information

Project Name: _____ Reedsburg Cleaners _____
 Bay West Job #: _____ J230382 _____
 Bay West Sampler Name(s) _____ Anders Santelman _____
 Weather Conditions _____


Project Information

Property Address: _____ 120 N Locust St _____
 Property Owner Name: _____ Lee Gnatzig _____
 Property Type: _____ Single Family, Residential _____


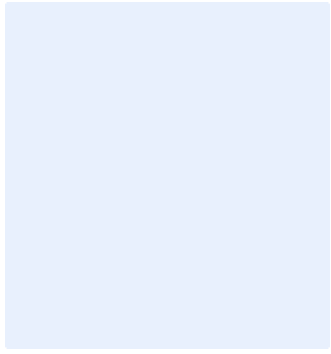
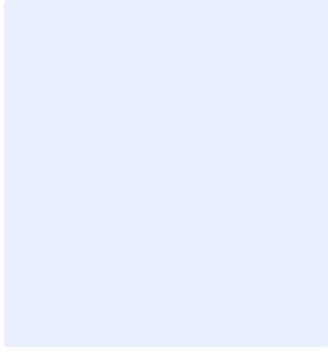
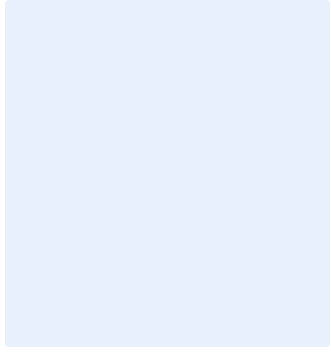
Sub-Slab Installation information

Concrete Slab Thickness: 5 inches
 Type of Sub-slab installed: Poured
 Time of Sub-Slab Installation: 7/18/2023
 Time for Sub-Slab Vapor Equilibration:
 Ambient PID (ppm): 0.0

#1

| | | |
|--|--|-----------------|
| <p>Sample ID: 08A_SSV_01_20231219 Passive Sampler Type: Passive Soil-Gas Sampler Sample Location: __Sub-Slab Duration of Test: 2 weeks Analysis: PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride Laboratory: ____Beacon____</p> <p>Start (or Grab) Sample Date: 12/05/2023 Time: 0915 PID (ppm): 1.6 Pressure Reading (Pa): 0.6</p> <p>End (or Grab) Sample Date: 12/19/2023 Time: 0908 PID (ppm): 2.1 Pressure Reading (Pa): 0</p> |  <p>Photo 1: Sub-slab sample as left</p> | <p>Photo 2:</p> |
| | <p>Photo 3:</p> | <p>Photo 4:</p> |

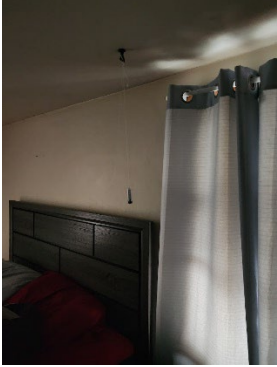
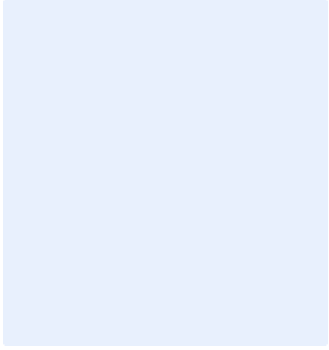
#2

| | | |
|--|---|---|
| <p>Sample ID: 08A_IAB_01_20231219 Passive Sampler Type: Passive Air Sampler Sample Location: Basement, Laundry/Utility room Duration of Test: 2 weeks Analysis: PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride Laboratory: Beacon</p> |  <p>Photo 1: Basement Sample</p> |  <p>Photo 2: _____</p> |
| <p>Start (or Grab) Sample Date: 12/05/2023 Time: 0921 PID (ppm): 0.0 Pressure Reading (Pa): End (or Grab) Sample Date: 12/19/2023 Time: 0915 PID (ppm): 0.1</p> |  <p>Photo 3: _____</p> |  <p>Photo 4: _____</p> |

#3

| | | |
|---|---|---|
| <p>Sample ID: 08A_IA1_02_20231219 Passive Sampler Type: Passive Air Sampler Sample Location: 1st Floor, kitchen Duration of Test: 2 Weels Analysis: PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride Laboratory: Beacon</p> |  <p>Photo 1: 1st floor sample</p> |  <p>Photo 2: _____</p> |
| <p>Start (or Grab) Sample Date: 12/05/2023 Time: 0925 PID (ppm): 0.1 End (or Grab) Sample Date: 12/19/2023 Time: 0920 PID (ppm): 0.1</p> |  <p>Photo 3: _____</p> |  <p>Photo 4: _____</p> |

#4

| | | |
|---|--|--|
| <p>Sample ID: 08A_IA2_03_20231219 Passive Sampler Type: Passive Air Sampler Sample Location: 2nd Floor, Main bedroom Duration of Test: 2 Weeks Analysis: PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride Laboratory: Beacon</p> |  <p>Photo 1: 2nd floor sample</p> |  <p>Photo 2: _____</p> |
| <p>Start (or Grab) Sample Date: 12/05/2023 Time: 0929 PID (ppm): 0.1</p> <p>End (or Grab) Sample Date: 12/19/2023 Time: 0923 PID (ppm): 0.0</p> |  <p>Photo 3: _____</p> |  <p>Photo 4: _____</p> |

| Project Information | | | | Client Information | | | |
|--|------------|---|-----------|--|--------------------------------------|---|---|
| Site Name: Reedsburg Cleaners (ERP 0257001682) | | Company Name: Bay West LLC | | Project Manager: Jason Kunze (jkunze@baywest.com) | | | |
| Site Location: 120 N Locust St (PSI A) | | Office Location: 5 Empire Drive, St. Paul, MN 55103 | | Client PO: J230382 / PO1309 | | | |
| | | Submitted by: Anders Santelman | | Turn around time (check one): | | | |
| | | Email: asantelman@baywest.com | | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush (specify) ____ days | | | |
| Field Sample ID | Start Date | Start Time | Stop Date | Stop Time | Sampling Hole Depth ■ cm ■ inches | Surface Type (Soil, Asphalt, Concrete, Gravel) | Optional Information (Location Description, Sample Condition, PID / FID Readings, etc) |
| 08A_SSV_01_20231219 | 12/5/23 | 0915 | 12/19/23 | 0908 | 5 inches | Concrete | A_SSV_01 |
| | | | | | | | |
| Special Instructions: Analytes: PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride | | | | | | | |
| Relinquished by (signature): | | Date / Time: 12/19/23 1300 | | Received by (signature): | | Date / Time: 12.20.23 1456 | |
| Relinquished by (signature): | | Date / Time: | | Received by (signature): | | Date / Time: | |
| For Lab Use Only | | Beacon Job No: 7389 | | Beacon Proposal: 230427H01 | | Analytical Method: | |
| Courier Name: FedEx | | Shipment Condition: good | | Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> n/a | | Custody Seal No: 5722458 | |

| Client Information | | Project Manager: Jason Kunze (jkunze@baywest.com) | | | Client PO: J230382 / PO1309 | | INDOOR AIR | AMBIENT AIR | CRAWL SPACE | SEWER GAS | |
|--|---|---|-----------|---|-----------------------------|--------------------------|------------|-------------|-------------|-----------|--|
| Company: Bay West LLC | Project Name: Reedsburg Cleaners (ERP 0257001682) | | | Turn around time (check one): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush (specify) ____ days | | | | | | | |
| Address: 5 Empire Dr. | Location: 120 N Locust St (PSI A) | | | Analysis: <input checked="" type="checkbox"/> Method TO-17 <input type="checkbox"/> Method 8260C | | | | | | | |
| City / State / Zip: St. Paul, MN 55103 | Submitted by: Anders Santelman | | | Email: asantelman@baywest.com | | | | | | | |
| Phone: 651-724-9757 | Email: asantelman@baywest.com | | | | | | | | | | |
| Location ID | Start Date | Start Time | Stop Date | Stop Time | Aver Temp (C) | Notes | | | | | |
| 08A_IAB_01_20231219 | 12/5/23 | 0921 | 12/19/23 | 0915 | 21 | A_IAB_01 | X | | | | |
| 08A_IA1_02_20231219 | 12/5/23 | 0925 | 12/19/23 | 0920 | 21 | A_IA1_02 | X | | | | |
| 08A_IA2_03_20231219 | 12/5/23 | 0929 | 12/19/23 | 0923 | 21 | A_IA2_03 | X | | | | |
| | | | | | | | | | | | |
| Special Notes / Instructions: Analytes: PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride | | | | | | | | | | | |
| Relinquished by (signature): <i>[Signature]</i> | Date / Time: 12/19/23 1300 | Received by (signature): <i>[Signature]</i> | | Date / Time: 12-20-23 1456 | | | | | | | |
| Relinquished by (signature): | Date / Time: | Received by (signature): | | Date / Time: | | | | | | | |
| For Lab Use Only | Beacon Job No: 7393 | | | Beacon Proposal: 230427H01 | | | | | | | |
| Courier Name: Fedex | Shipment Condition: good | | | Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> n/a | | Custody Seal No: 5722455 | | | | | |

APPENDIX D



Understanding Chemical Vapor Intrusion Testing Results

RR-977

October 2014

From the Lab to You

Chemical vapor samples were taken from underneath your house or building and possibly indoors as well. These samples have been tested by a certified laboratory and a report was issued. The Wisconsin Department of Natural Resources (DNR) uses these test results to determine if people in the building are being exposed to chemical vapors coming from nearby contaminated soil or groundwater, and to decide what, if any, action is needed to prevent this exposure.

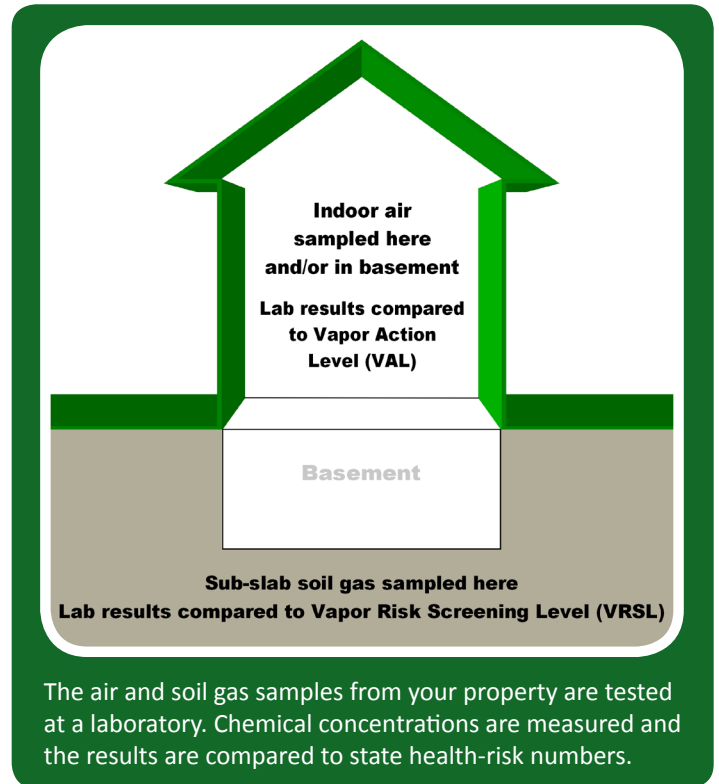
Indoor Air Testing Results

If indoor air samples were collected in your house or building, test results from the lab will be compared to the state Vapor Action Level (VAL) for chemicals of concern. The VAL is a chemical compound's numerical value that represents a health hazard risk to no more than 1 in 100,000 people during a lifetime of exposure. If test results show chemical concentrations in your air below the VAL then adverse health effects are extremely rare, even if you were to breathe the chemical at this concentration for your entire life.

Test results showing chemical concentrations in the air at or above the VAL prompt DNR to recommend that exposure to these chemical vapors be reduced. If test results show concentrations significantly above the VAL, or more than one type of chemical vapor is identified in your indoor air, the risk from exposure increases. If the concentration of any indoor chemical vapor greatly exceeds the VAL, DNR is concerned about even short-term exposure and will typically require immediate action to address the problem.

The VAL for each chemical is set by scientific research. It is protective of all people, including those who are most susceptible to adverse health effects.

If test results identify chemicals in your air that are not present in nearby soil or groundwater contamination, it is likely that these vapors are coming from some product or activity in or near your house or building. Many everyday consumer products (e.g., cleaners, solvents, polish, adhesives, lubricants, aerosols, insect repellants, etc.); combustion processes (e.g., smoking, home heating); fuels in attached garages; dry cleaned clothing or draperies; and occupant activities (e.g., craft hobbies), also release chemical vapors into the air.



The air and soil gas samples from your property are tested at a laboratory. Chemical concentrations are measured and the results are compared to state health-risk numbers.

Sub-slab Soil Gas Testing Results

Soil gas samples were collected from the ground beneath the concrete slab of your building foundation or basement. The lab measured the concentrations of various chemicals in these samples. DNR compares these measurements to the state Vapor Risk Screening Level (VRSL), which identifies the concentration of a chemical in soil gas that scientific research suggests can be a health risk if vapor enters a building. If soil gas measurements exceed the VRSL for a chemical of concern, action to reduce exposure is strongly recommended.

The VRSL is a higher number (higher chemical concentration) than the VAL because it is presumed that concrete building foundations and basement walls will prevent most soil gas from entering a building. Further, any soil gas that does enter a building through cracks, holes, sump pumps, drains, etc., will be diluted to some extent by the indoor air. So, people inside will not be breathing air that includes the full concentration of chemical vapors that exist in the ground.



Wisconsin Department of Natural Resources
P.O. Box 7921, Madison, WI 53707
dnr.wi.gov, search "Brownfields"



DNR generally relies on the test results of the sub-slab soil gas samples when determining what, if any, action should be taken related to chemical vapors coming from nearby soil or groundwater contamination. Indoor air quality is highly variable, and it is difficult to make a definitive decision about vapor intrusion based on indoor air sampling alone.

Follow-Up Actions

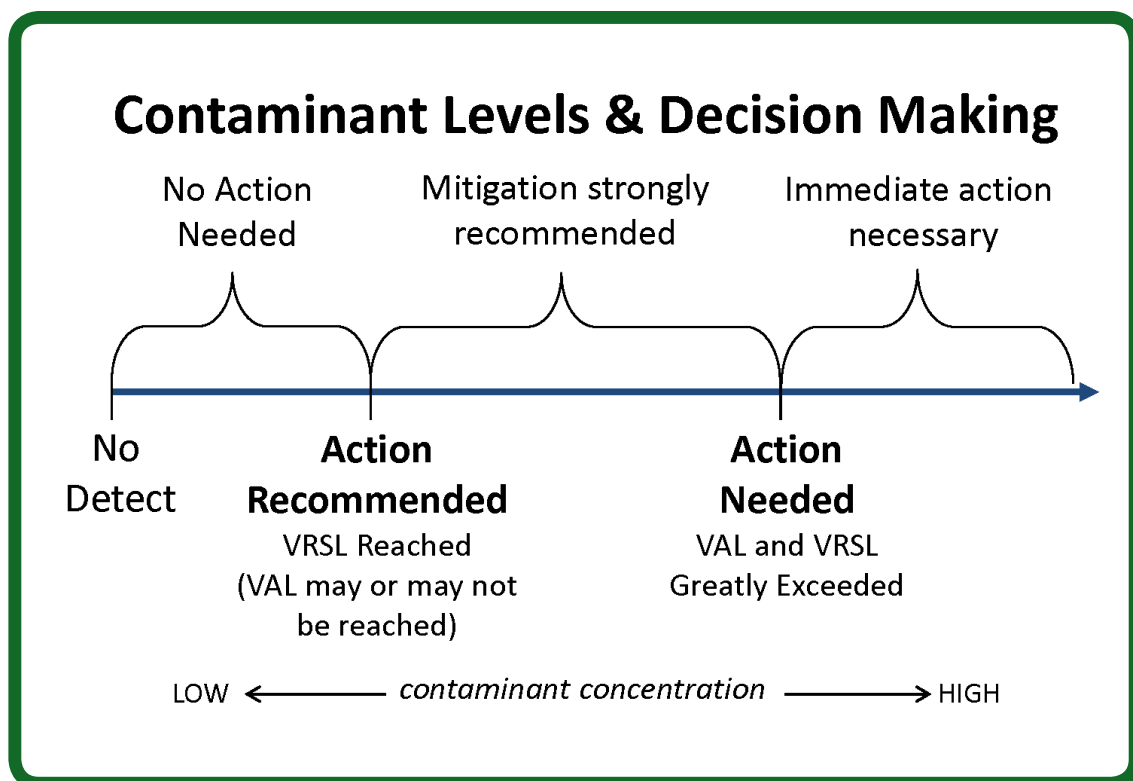
If your test results are less than a VAL for indoor air, or a VRSL for sub-slab soil gas, then the air in the house or building should not present a health concern. Follow-up sampling and testing may be necessary to confirm the results, but no other action is typically suggested.

When test results show soil gas chemical concentrations above a VRSL, both DNR and the Wisconsin Department of

Health Services recommend that owners take action to reduce potential exposure. This typically involves installing a vapor mitigation system that vents chemical vapors from beneath your home or building to the outdoors, similar to a radon mitigation system.

If indoor air concentrations exceed a VAL, but sub-slab concentrations are less than a VRSL, then the chemical vapors are most likely coming from indoor sources. Steps should be taken by the house or building owner to identify the products and practices causing the problem and implement appropriate remedies.

If soil gas mitigation is recommended, a representative of the party who is responsible for the soil or groundwater contamination will contact you to discuss your options.



A Note about Measurement Units: The lab report may include some unfamiliar technical language. The most important point to note is whether or not the test result for a specific chemical exceeds a VAL or VRSL, which are also sometimes referred to, generically, as “screening levels.”

The concentration of gaseous pollutants in air is typically described in two different ways: 1) as units of mass per volume, where $\mu\text{g}/\text{m}^3$ represents micrograms of gaseous pollutant per cubic meter of ambient air; and 2) as parts per billion by volume (ppbv), where the volume of a gaseous pollutant is compared to a set volume of ambient air. These are the numbers that are compared to the VAL and VRSL.

For more information, visit dnr.wi.gov/topic/Brownfields/Vapor.html