



Sent Electronically to the WDNR Portal

Mackenzie Reynolds
Hydrogeologist
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King Jr Drive
Milwaukee, WI 53212-3128

**SEWER VAPOR RESULTS
FORMER WERNERS CLEANERS
6415 28TH AVENUE
KENOSHA, WISCONSIN
BRRTS 02-30-577102**

Dear Ms. Reynolds:

Ramboll Americas Engineering Solutions, Inc. received the vapor analytical results from the five sewer samples collected on May 20, 2024. This transmittal follows the sample results notification required under Wisconsin Administrative Code Chapter NR 716.14(2). The laboratory analytical results are summarized in **Table 1**, the sample locations are illustrated in **Figure 1**, and the laboratory report is provided in **Attachment A**. These results will be discussed in the forthcoming NR 716 site investigation report.

Please let us know if you have any questions.

Yours sincerely,

Richard Mazurkiewicz
Managing Consultant

D 262 901 3502
rmazurkiewicz@ramboll.com

C:

Silje Roalsvik, Resolute Management, Inc.
Nancy Reid, Resolute Management, Inc.
Jake Butz, Bay Towel, Inc.
Richard Baron, Foley, Baron, Metzger & Juip, PLLC
Donald Gallo, Gallo Law, LLC

Enclosed:

Table 1 – Sewer Vapor Volatile Organic Compounds Analytical Summary
Figure 1 – Vapor Sample Results
Attachment A – Laboratory Analytical Report

July 2, 2024

Ramboll
234 West Florida St., 5th Floor
Milwaukee, WI 53204
USA

Phone: 414-837-3607
Fax: 414-837-3608
www.ramboll.com

Ref. 1940105592

TABLE 1
Sewer Vapor Volatile Organic Compounds Analytical Summary
Former Werners Cleaners
6415 28TH Avenue, Kenosha, Wisconsin 53143
Ramboll Project 1940105592

| Parameters | | Residential SSGSL ⁽¹⁾ (AF=0.03) | Large Commercial / Industrial SSGSL ⁽¹⁾ (AF=0.03) ² | WMS-1 Sanitary | WMS-2 Sanitary | WMS-3 Sanitary | WMS-4 Sanitary | WMS-5 Storm |
|---|----------|---|--|-------------------|-------------------|-------------------|-------------------|----------------|
| Analyte (µg/m ³) ⁽¹⁾ | CAS No. | | | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/20/2024 | 5/23/2024 |
| Dichloroethylene, 1,2-cis- | 156-59-2 | 1,400 | 5,800 | 40 | 68 | 48 | 220 | <1.9 |
| Dichloroethylene, 1,2-trans- | 156-60-5 | 1,400 | 5,800 | <4.4 | <4.4 | <4.4 | <4.4 | <4.5 |
| Tetrachloroethylene | 127-18-4 | 1,400 | 5,800 | 68 | 150 | 100 | 310 | <0.92 |
| Trichloroethylene | 79-01-6 | 70 | 290 | 12 | 24 | 14 | 53 | <1.4 |
| Vinyl Chloride | 75-01-4 | 56 | 930 | <12 | <12 | <12 | <12 | <12 |

Notes:

Standards based on May 2024 USEPA Vapor Intrusion Screening Level (VISL) Calculator downloads.

Samples analyzed using USEPA Method TO-17.

µg/m³ = Microgram per cubic meter.

AF = Attenuation Factor.

VAL= Indoor Air Vapor Action Level.

VRSL = Vapor Risk Screening Level.

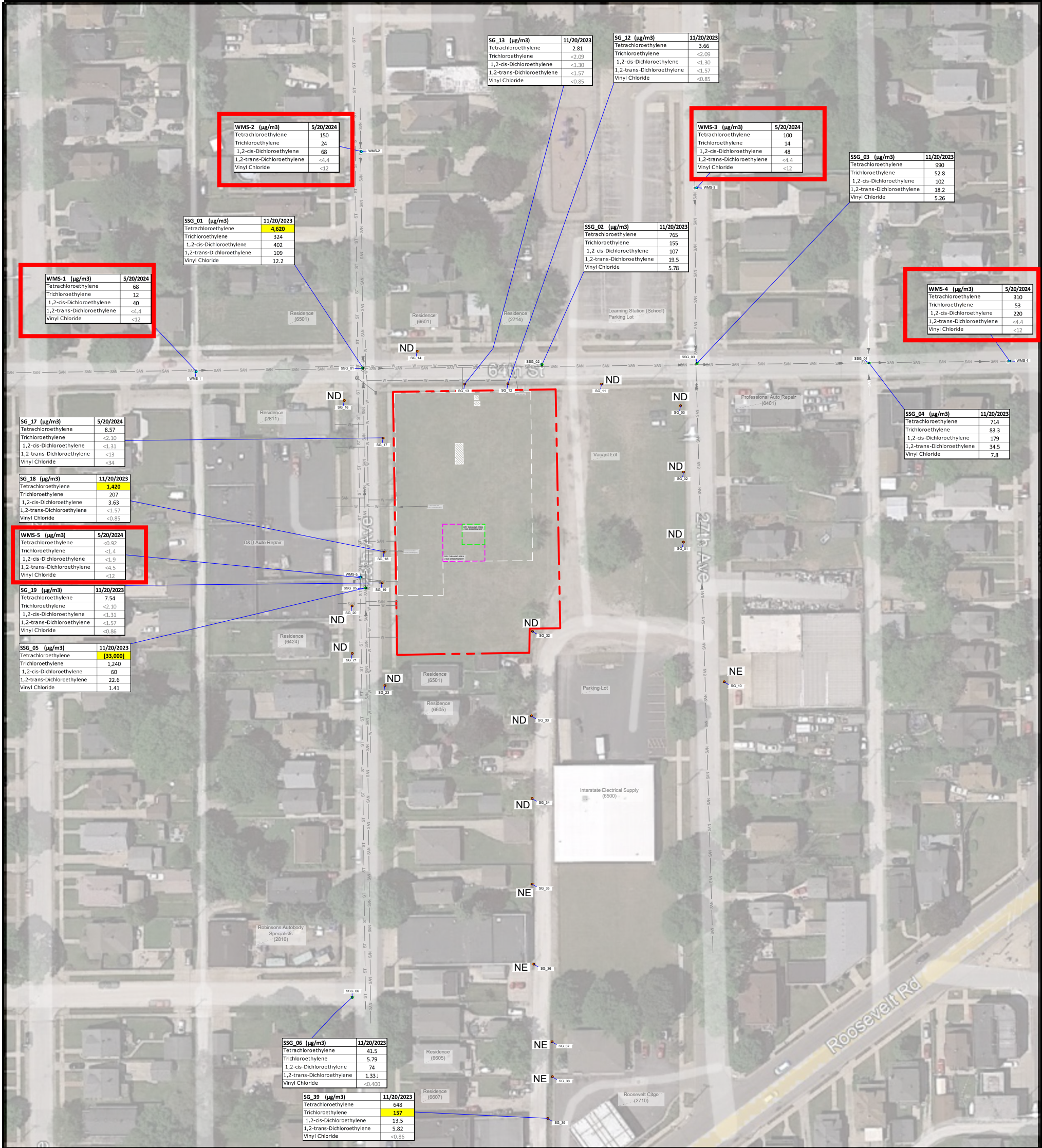
SSGSL = Sanitary Sewer Gas Screening Level.

⁽¹⁾ Per WDNR Publication RR-649, in cases where sanitary sewers are a concern for allowing vapor phase contaminants into occupied structures, DNR recommends that a Sanitary Sewer Gas Screening Level (SSGSL) be calculated for each of the contaminants of concern. The SSGSL is calculated by dividing the VAL by an attenuation factor (AF) of 0.03 (residential, see note 2). This concept is similar to the sub-slab vapor VRSL. The VAL appropriate for buildings served by the sanitary sewer should be used (i.e., residential VAL or commercial/industrial VAL). All values were reported to two significant digits.

² The same 0.03 attenuation factor is used for all types of buildings because the sewer gas traps designed to prevent intrusion of sewer gases are similar for all types of buildings.

A = Exceeds Residential VRSL.

B = Exceeds Large Commercial/Industrial VRSL.



| SG 13 (µg/m3) | 11/20/2023 |
|----------------------------|------------|
| Tetrachloroethylene | 2.81 |
| Trichloroethylene | <2.09 |
| 1,2-cis-Dichloroethylene | <1.30 |
| 1,2-trans-Dichloroethylene | <1.57 |
| Vinyl Chloride | <0.85 |

| SG 12 (µg/m3) | 11/20/2023 |
|----------------------------|------------|
| Tetrachloroethylene | 3.66 |
| Trichloroethylene | <2.09 |
| 1,2-cis-Dichloroethylene | <1.30 |
| 1,2-trans-Dichloroethylene | <1.57 |
| Vinyl Chloride | <0.85 |

| WMS-2 (µg/m3) | 5/20/2024 |
|----------------------------|-----------|
| Tetrachloroethylene | 150 |
| Trichloroethylene | 24 |
| 1,2-cis-Dichloroethylene | 68 |
| 1,2-trans-Dichloroethylene | <4.4 |
| Vinyl Chloride | <12 |

| WMS-3 (µg/m3) | 5/20/2024 |
|----------------------------|-----------|
| Tetrachloroethylene | 100 |
| Trichloroethylene | 14 |
| 1,2-cis-Dichloroethylene | 48 |
| 1,2-trans-Dichloroethylene | <4.4 |
| Vinyl Chloride | <12 |

| SSG 03 (µg/m3) | 11/20/2023 |
|----------------------------|------------|
| Tetrachloroethylene | 990 |
| Trichloroethylene | 52.8 |
| 1,2-cis-Dichloroethylene | 102 |
| 1,2-trans-Dichloroethylene | 18.2 |
| Vinyl Chloride | 5.26 |

| SSG 01 (µg/m3) | 11/20/2023 |
|----------------------------|------------|
| Tetrachloroethylene | 4,620 |
| Trichloroethylene | 324 |
| 1,2-cis-Dichloroethylene | 402 |
| 1,2-trans-Dichloroethylene | 109 |
| Vinyl Chloride | 12.2 |

| SSG 02 (µg/m3) | 11/20/2023 |
|----------------------------|------------|
| Tetrachloroethylene | 765 |
| Trichloroethylene | 155 |
| 1,2-cis-Dichloroethylene | 107 |
| 1,2-trans-Dichloroethylene | 19.5 |
| Vinyl Chloride | 5.78 |

| WMS-1 (µg/m3) | 5/20/2024 |
|----------------------------|-----------|
| Tetrachloroethylene | 68 |
| Trichloroethylene | 12 |
| 1,2-cis-Dichloroethylene | 40 |
| 1,2-trans-Dichloroethylene | <4.4 |
| Vinyl Chloride | <12 |

| WMS-4 (µg/m3) | 5/20/2024 |
|----------------------------|-----------|
| Tetrachloroethylene | 310 |
| Trichloroethylene | 53 |
| 1,2-cis-Dichloroethylene | 220 |
| 1,2-trans-Dichloroethylene | <4.4 |
| Vinyl Chloride | <12 |

| SG 17 (µg/m3) | 5/20/2024 |
|----------------------------|-----------|
| Tetrachloroethylene | 8.57 |
| Trichloroethylene | <2.10 |
| 1,2-cis-Dichloroethylene | <1.31 |
| 1,2-trans-Dichloroethylene | <1.3 |
| Vinyl Chloride | <34 |

| SG 18 (µg/m3) | 11/20/2023 |
|----------------------------|------------|
| Tetrachloroethylene | 1,420 |
| Trichloroethylene | 207 |
| 1,2-cis-Dichloroethylene | 3.63 |
| 1,2-trans-Dichloroethylene | <1.57 |
| Vinyl Chloride | <0.85 |

| WMS-5 (µg/m3) | 5/20/2024 |
|----------------------------|-----------|
| Tetrachloroethylene | <0.92 |
| Trichloroethylene | <1.4 |
| 1,2-cis-Dichloroethylene | <1.9 |
| 1,2-trans-Dichloroethylene | <4.5 |
| Vinyl Chloride | <12 |

| SG 19 (µg/m3) | 11/20/2023 |
|----------------------------|------------|
| Tetrachloroethylene | 7.54 |
| Trichloroethylene | <2.10 |
| 1,2-cis-Dichloroethylene | <1.31 |
| 1,2-trans-Dichloroethylene | <1.57 |
| Vinyl Chloride | <0.86 |

| SSG 05 (µg/m3) | 11/20/2023 |
|----------------------------|------------|
| Tetrachloroethylene | 13,000 |
| Trichloroethylene | 1,240 |
| 1,2-cis-Dichloroethylene | 60 |
| 1,2-trans-Dichloroethylene | 22.6 |
| Vinyl Chloride | 1.41 |

| SSG 06 (µg/m3) | 11/20/2023 |
|----------------------------|------------|
| Tetrachloroethylene | 41.5 |
| Trichloroethylene | 5.79 |
| 1,2-cis-Dichloroethylene | 74 |
| 1,2-trans-Dichloroethylene | 1.331 |
| Vinyl Chloride | <0.400 |

| SG 39 (µg/m3) | 11/20/2023 |
|----------------------------|------------|
| Tetrachloroethylene | 648 |
| Trichloroethylene | 157 |
| 1,2-cis-Dichloroethylene | 13.5 |
| 1,2-trans-Dichloroethylene | 5.82 |
| Vinyl Chloride | <0.86 |

- LEGEND**
- PROPERTY BOUNDARY (APPROXIMATE)
 - FORMER DRY CLEANER UST LOCATIONS
 - FORMER DRY CLEANER BUILDING
 - SIGMA SOIL GAS SAMPLE
 - SIGMA SANITARY SEWER GAS SAMPLE
 - RAMBOLL SEWER GAS SAMPLE
 - SANITARY SEWER
 - STORM SEWER
 - CATCH BASIN
 - SANITARY ACCESS

Former Tank Information:
 one 8,000-gallon fuel oil,
 one 550-gallon contents unknown, and
 one 300-gallon contents unknown bare
 steel underground storage tanks (USTs)
 USTs removed February 17, 2016.



0 100
SCALE IN FEET

VAPOR SAMPLE RESULTS

(Micrograms per cubic meter)

Former Werner's Cleaners
 6415 28th Ave., Kenosha, WI



FIGURE
1

SOURCE:
 AERIAL IMAGERY: Google™ earth. Image Date, 09/18/2023
 City of Kenosha GIS
 Parcel Number 01-122-01-161-019
 Property Owner Name: Christopher Diakoumakos per
https://mapping.kenoshacountywi.gov/InteractiveMapping/?data_id=widget_93_output_config_0%3A0&page=Page&views=Layers.

Attachment A

6/10/2024

Mr. Steven Kikkert

Ramboll

234 W. Florida St.

5th Floor

Milwaukee WI 53204

Project Name: Fmr Werners Cleaners

Project #: 1940105592

Workorder #: 2405649

Dear Mr. Steven Kikkert

The following report includes the data for the above referenced project for sample(s) received on 5/28/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. WMS are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Jade White

Project Manager

WORK ORDER #: 2405649

Work Order Summary

| | | | |
|------------------------|---|------------------|--|
| CLIENT: | Mr. Steven Kikkert Ramboll 234 W. Florida St. 5th Floor Milwaukee, WI 53204 | BILL TO: | Accounts Payable Ramboll 23713 W. Paul Road Suite D Pewaukee, WI 53072 |
| PHONE: | 414-837-3544 | P.O. # | |
| FAX: | | PROJECT # | 1940105592 Fmr Werners Cleaners |
| DATE RECEIVED: | 05/28/2024 | CONTACT: | Jade White |
| DATE COMPLETED: | 06/10/2024 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> |
|-------------------|-------------|------------------|
| 01A | WMS-1 | Passive S.E. WMS |
| 02A | WMS-2 | Passive S.E. WMS |
| 03A | WMS-3 | Passive S.E. WMS |
| 04A | WMS-4 | Passive S.E. WMS |
| 05A | WMS-5 | Passive S.E. WMS |
| 06A | Lab Blank | Passive S.E. WMS |
| 07A | CCV | Passive S.E. WMS |
| 08A | LCS | Passive S.E. WMS |
| 08AA | LCSD | Passive S.E. WMS |

CERTIFIED BY: 

 Technical Director

DATE: 06/10/24

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017
 Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

LABORATORY NARRATIVE
WMS Passive SE by Mod EPA TO-17
Ramboll
Workorder# 2405649

Five WMS-SE samples were received on May 28, 2024. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

Please note that 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) can degrade into Trichloroethene (TCE) during storage on the charcoal-based sorbent used in the WMS device. Samples containing 1,1,2,2-PCA may yield reduced concentrations of 1,1,2,2-PCA and elevated concentrations of TCE.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

| <i>Requirement</i> | <i>TO-17</i> | <i>ATL Modifications</i> |
|----------------------------|---|---|
| Sample Collection | Pump pulls measured air volume through sorbent tube | VOCs in air adsorbed onto sorbent bed passively through diffusion |
| Sample Preparation | Thermal extraction | Solvent extraction |
| Sorbent tube conditioning | Condition newly packed tubes prior to use | Charcoal-based sorbent is a single use media and conditioning is conducted by vendor. |
| Instrumentation | Thermal desorption introduction system | Liquid injection introduction system |
| Internal Standard | Gas-phase internal standard introduced on the tube or focusing trap during analysis | Liquid-phase internal standard introduced on the tube at the time of extraction |
| Media and sample storage | <4 deg C, 30 days | Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping. |
| Internal Standard Recovery | +/-40% of daily CCV area | -50% to +100% of daily CCV area |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m³ concentrations in the Lab Blank, a sampling duration of 14336 minutes was applied.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

CN - See case narrative explanation.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds VOC BY PASSIVE SAMPLER - GC/MS

Client Sample ID: WMS-1

Lab ID#: 2405649-01A

| Compound | Rpt. Limit (ug) | Rpt. Limit (ug/m3) | Amount (ug) | Amount (ug/m3) |
|------------------------|-----------------|--------------------|-------------|----------------|
| cis-1,2-Dichloroethene | 0.050 | 1.8 | 1.1 | 40 |
| Trichloroethene | 0.050 | 1.3 | 0.43 | 12 |
| Tetrachloroethene | 0.050 | 0.89 | 3.8 | 68 |

Client Sample ID: WMS-2

Lab ID#: 2405649-02A

| Compound | Rpt. Limit (ug) | Rpt. Limit (ug/m3) | Amount (ug) | Amount (ug/m3) |
|------------------------|-----------------|--------------------|-------------|----------------|
| cis-1,2-Dichloroethene | 0.050 | 1.8 | 1.8 | 68 |
| Trichloroethene | 0.050 | 1.3 | 0.88 | 24 |
| Tetrachloroethene | 0.050 | 0.89 | 8.4 | 150 |

Client Sample ID: WMS-3

Lab ID#: 2405649-03A

| Compound | Rpt. Limit (ug) | Rpt. Limit (ug/m3) | Amount (ug) | Amount (ug/m3) |
|------------------------|-----------------|--------------------|-------------|----------------|
| cis-1,2-Dichloroethene | 0.050 | 1.8 | 1.3 | 48 |
| Trichloroethene | 0.050 | 1.3 | 0.54 | 14 |
| Tetrachloroethene | 0.050 | 0.90 | 5.7 | 100 |

Client Sample ID: WMS-4

Lab ID#: 2405649-04A

| Compound | Rpt. Limit (ug) | Rpt. Limit (ug/m3) | Amount (ug) | Amount (ug/m3) |
|------------------------|-----------------|--------------------|-------------|----------------|
| cis-1,2-Dichloroethene | 0.050 | 1.8 | 6.1 | 220 |
| Trichloroethene | 0.050 | 1.3 | 2.0 | 53 |
| Tetrachloroethene | 0.050 | 0.90 | 17 | 310 |

Client Sample ID: WMS-5

Lab ID#: 2405649-05A

No Detections Were Found.

Client Sample ID: WMS-1

Lab ID#: 2405649-01A

VOC BY PASSIVE SAMPLER - GC/MS

| | | | |
|--------------|------------|---------------------|--------------------|
| File Name: | c053108sim | Date of Collection: | 5/20/24 8:14:00 AM |
| Dil. Factor: | 1.00 | Date of Analysis: | 5/31/24 11:23 AM |
| | | Date of Extraction: | 5/31/24 |

| Compound | Rpt. Limit (ug) | Rpt. Limit (ug/m3) | Amount (ug) | Amount (ug/m3) |
|--------------------------|-----------------|--------------------|--------------|----------------|
| Vinyl Chloride | 0.20 | 12 | Not Detected | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | 4.4 | Not Detected | Not Detected |
| cis-1,2-Dichloroethene | 0.050 | 1.8 | 1.1 | 40 |
| Trichloroethene | 0.050 | 1.3 | 0.43 | 12 |
| Tetrachloroethene | 0.050 | 0.89 | 3.8 | 68 |

Temperature = 65.0F , duration time = 14336 minutes.

Container Type: WMS-SE

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
| Toluene-d8 | 102 | 70-130 |

Client Sample ID: WMS-2

Lab ID#: 2405649-02A

VOC BY PASSIVE SAMPLER - GC/MS

| | | | |
|--------------|------------|---------------------|--------------------|
| File Name: | c053109sim | Date of Collection: | 5/20/24 8:23:00 AM |
| Dil. Factor: | 1.00 | Date of Analysis: | 5/31/24 11:50 AM |
| | | Date of Extraction: | 5/31/24 |

| Compound | Rpt. Limit (ug) | Rpt. Limit (ug/m3) | Amount (ug) | Amount (ug/m3) |
|--------------------------|-----------------|--------------------|--------------|----------------|
| Vinyl Chloride | 0.20 | 12 | Not Detected | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | 4.4 | Not Detected | Not Detected |
| cis-1,2-Dichloroethene | 0.050 | 1.8 | 1.8 | 68 |
| Trichloroethene | 0.050 | 1.3 | 0.88 | 24 |
| Tetrachloroethene | 0.050 | 0.89 | 8.4 | 150 |

Temperature = 65.0F , duration time = 14329 minutes.

Container Type: WMS-SE

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
| Toluene-d8 | 102 | 70-130 |



Air Toxics

Client Sample ID: WMS-3

Lab ID#: 2405649-03A

VOC BY PASSIVE SAMPLER - GC/MS

| | | | |
|--------------|------------|---------------------|--------------------|
| File Name: | c053110sim | Date of Collection: | 5/20/24 8:30:00 AM |
| Dil. Factor: | 1.00 | Date of Analysis: | 5/31/24 12:18 PM |
| | | Date of Extraction: | 5/31/24 |

| Compound | Rpt. Limit (ug) | Rpt. Limit (ug/m3) | Amount (ug) | Amount (ug/m3) |
|--------------------------|-----------------|--------------------|--------------|----------------|
| Vinyl Chloride | 0.20 | 12 | Not Detected | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | 4.4 | Not Detected | Not Detected |
| cis-1,2-Dichloroethene | 0.050 | 1.8 | 1.3 | 48 |
| Trichloroethene | 0.050 | 1.3 | 0.54 | 14 |
| Tetrachloroethene | 0.050 | 0.90 | 5.7 | 100 |

Temperature = 65.0F , duration time = 14324 minutes.

Container Type: WMS-SE

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
| Toluene-d8 | 103 | 70-130 |

Client Sample ID: WMS-4

Lab ID#: 2405649-04A

VOC BY PASSIVE SAMPLER - GC/MS

| | | | |
|--------------|------------|---------------------|--------------------|
| File Name: | c053111sim | Date of Collection: | 5/20/24 8:39:00 AM |
| Dil. Factor: | 1.00 | Date of Analysis: | 5/31/24 12:45 PM |
| | | Date of Extraction: | 5/31/24 |

| Compound | Rpt. Limit (ug) | Rpt. Limit (ug/m3) | Amount (ug) | Amount (ug/m3) |
|--------------------------|-----------------|--------------------|--------------|----------------|
| Vinyl Chloride | 0.20 | 12 | Not Detected | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | 4.4 | Not Detected | Not Detected |
| cis-1,2-Dichloroethene | 0.050 | 1.8 | 6.1 | 220 |
| Trichloroethene | 0.050 | 1.3 | 2.0 | 53 |
| Tetrachloroethene | 0.050 | 0.90 | 17 | 310 |

Temperature = 65.0F , duration time = 14319 minutes.

Container Type: WMS-SE

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
| Toluene-d8 | 103 | 70-130 |

Client Sample ID: WMS-5

Lab ID#: 2405649-05A

VOC BY PASSIVE SAMPLER - GC/MS

| | | | |
|--------------|------------|---------------------|--------------------|
| File Name: | c053112sim | Date of Collection: | 5/23/24 8:30:00 AM |
| Dil. Factor: | 1.00 | Date of Analysis: | 5/31/24 01:13 PM |
| | | Date of Extraction: | 5/31/24 |

| Compound | Rpt. Limit (ug) | Rpt. Limit (ug/m3) | Amount (ug) | Amount (ug/m3) |
|--------------------------|-----------------|--------------------|--------------|----------------|
| Vinyl Chloride | 0.20 | 12 | Not Detected | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | 4.5 | Not Detected | Not Detected |
| cis-1,2-Dichloroethene | 0.050 | 1.9 | Not Detected | Not Detected |
| Trichloroethene | 0.050 | 1.4 | Not Detected | Not Detected |
| Tetrachloroethene | 0.050 | 0.92 | Not Detected | Not Detected |

Temperature = 65.0F , duration time = 13974 minutes.

Container Type: WMS-SE

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
| Toluene-d8 | 102 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 2405649-06A

VOC BY PASSIVE SAMPLER - GC/MS

| | | | |
|--------------|------------|---------------------|------------------|
| File Name: | c053106sim | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 5/31/24 10:29 AM |
| | | Date of Extraction: | 5/31/24 |

| Compound | Rpt. Limit (ug) | Rpt. Limit (ug/m3) | Amount (ug) | Amount (ug/m3) |
|--------------------------|-----------------|--------------------|--------------|----------------|
| Vinyl Chloride | 0.20 | 12 | Not Detected | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | 4.4 | Not Detected | Not Detected |
| cis-1,2-Dichloroethene | 0.050 | 1.8 | Not Detected | Not Detected |
| Trichloroethene | 0.050 | 1.3 | Not Detected | Not Detected |
| Tetrachloroethene | 0.050 | 0.89 | Not Detected | Not Detected |

Temperature = 65.0F , duration time = 14336 minutes.

Container Type: WMS-SE

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
| Toluene-d8 | 102 | 70-130 |

Client Sample ID: CCV

Lab ID#: 2405649-07A

VOC BY PASSIVE SAMPLER - GC/MS

| | | | |
|--------------|------------|---------------------|------------------|
| File Name: | c053102sim | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 5/31/24 08:35 AM |
| | | Date of Extraction: | NA |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 103 |
| trans-1,2-Dichloroethene | 114 |
| cis-1,2-Dichloroethene | 114 |
| Trichloroethene | 112 |
| Tetrachloroethene | 130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
| Toluene-d8 | 121 | 70-130 |



Air Toxics

Client Sample ID: LCS

Lab ID#: 2405649-08A

VOC BY PASSIVE SAMPLER - GC/MS

| | | | |
|--------------|------------|---------------------|------------------|
| File Name: | c053103sim | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 5/31/24 09:02 AM |
| | | Date of Extraction: | 5/31/24 |

| Compound | %Recovery | Method Limits |
|--------------------------|-----------|---------------|
| Vinyl Chloride | 85 | 50-140 |
| trans-1,2-Dichloroethene | 96 | 70-130 |
| cis-1,2-Dichloroethene | 96 | 70-130 |
| Trichloroethene | 101 | 70-130 |
| Tetrachloroethene | 108 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
| Toluene-d8 | 102 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 2405649-08AA

VOC BY PASSIVE SAMPLER - GC/MS

| | | | |
|--------------|------------|---------------------|------------------|
| File Name: | c053105sim | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 5/31/24 10:01 AM |
| | | Date of Extraction: | 5/31/24 |

| Compound | %Recovery | Method Limits |
|--------------------------|-----------|---------------|
| Vinyl Chloride | 90 | 50-140 |
| trans-1,2-Dichloroethene | 105 | 70-130 |
| cis-1,2-Dichloroethene | 103 | 70-130 |
| Trichloroethene | 104 | 70-130 |
| Tetrachloroethene | 107 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
| Toluene-d8 | 102 | 70-130 |



Air Toxics

Analysis Request / Passive Sorbent Chain of Custody

eurofinsus.com



Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #:

2405649

page 1 of 1

Client: Ramboll
Site Name: Env Workms Cleanms
Project Manager: Richard Mazurkiewicz
Sampler: Steven Kikkart

Project Name: Env Workms Cleanms
Project #: 1940105592
PO#: _____

Turnaround Time (Specify Below)
Standard Rush _____ (Surcharges will apply, per availability)
Requested Date (mm/dd/yy): _____
QR Number of Days: _____

Sample Matrix (Check One)
Indoor/Outdoor Air Soil Gas Workplace Monitoring (Other) Sorbent
Reporting Units (Circle One)
ppbv µg/m³ ppmv mg/m³
µg ng

| Lab ID | Field Sample Identification (Location) | Tube # / Sampler ID | Times are military unless am/pm is indicated | | | | Indoor/Outdoor Air | Soil Gas | Workplace Monitoring | (Other) <u>Sorbent</u> | Temperature | Analysis Requested | Sample Comments: |
|--------|--|---------------------|--|-------|-----------------------|------|--------------------|----------|----------------------|------------------------|-------------|--------------------|------------------|
| | | | Deployment Information | | Retrieval Information | | | | | | | | |
| | | | Date | Time | Date | Time | | | | | | | |
| 01A | WMS-1 | AN-R-23-790 | 5/10/24 | 9:18 | 5/20/24 | 8:14 | | | X | 65°F | TO-15 | | |
| 02A | WMS-2 | AN-R-23-791 | ↓ | 9:34 | ↓ | 8:23 | | | X | ↓ | ↓ | | |
| 03A | WMS-3 | AN-R-23-789 | ↓ | 9:46 | ↓ | 8:30 | | | X | ↓ | ↓ | | |
| 04A | WMS-4 | AN-R-23-742 | ↓ | 10:00 | ↓ | 8:39 | | | X | ↓ | ↓ | | |
| 05A | WMS-5 | AN-R-23-742 | 5/13/24 | 19:36 | 5/23/24 | 8:30 | | | X | ↓ | ↓ | | |

Special Instructions/Notes: Analyze only for PCE, TCE, cis- & trans-1,2-DCE, and Vinyl Chloride

| | | | | | |
|--|-----------------|---------------|---|-----------------|---------------|
| Relinquished by: (Signature/Affiliation) <u>[Signature] / Ramboll</u> | Date 5/23/24 | Time 10:00 | Received by: (Signature/Affiliation) <u>[Signature] EATL</u> | Date 5.28.24 | Time 10:03 |
| Relinquished by: (Signature/Affiliation) | Date | Time | Received by: (Signature/Affiliation) | Date | Time |
| Relinquished by: (Signature/Affiliation) | Date | Time | Received by: (Signature/Affiliation) | Date | Time |

Lab Use Only
Shipper Name: Fed Ex Custody Seals Intact? Yes No None Temperature: N/A Condition: Good

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922