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17975 West Sarah Lane  
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Brookfield, WI 53045  
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F: 262.923.7758  
www.gza.com

April 10, 2024

Mr. and Mrs. Jon and Sharon Braun  
980 Lincoln Drive West  
West Bend, Wisconsin 53095-4725

Re: Results of Sub-Slab and Indoor Air Testing  
980 Lincoln Drive West  
West Bend, Wisconsin

Dear Mr. and Mrs. Braun:

On behalf of Continental VI Fund Limited Partnership (Continental), GZA GeoEnvironmental, Inc. (GZA) thanks you for allowing us access to conduct the testing in the home on your property in March 2024. As further described below, the results of vapor testing we conducted for chemicals that could be associated with the former Mr. Bob's One Hour Dry Cleaning that once operated at 1025 South Main Street (former Decorah Shopping Center), were found to be within allowable State levels. These results confirm the prior results obtained in February 2022 and November 2023.

#### Indoor Air Sampling and Analyses

GZA collected two passive indoor air samples from the basement and first floor levels of your home at 980 Lincoln Drive West, and an outside air background sample over an eight-day period from March 7 to 15, 2024. The passive indoor air and outside air background samples were collected with Radiello® RAD145 seven- to ten-day passive diffusive sorbent samplers. For sampling, GZA removed the adsorbent media from its sealed, glass containers, placed the adsorbent media in the diffusive barrier, and connected the diffusive barrier to a stand for placement at the sampling location. After approximately eight days, GZA returned to your residence to remove the adsorbent media from the diffusive barrier and place them back in the sealed, glass containers. GZA recorded the dates and times the adsorbent media were removed from and returned to the sealed glass containers on the chain-of-custody. GZA submitted the samples under chain-of-custody to Eurofins|Air Toxics of Folsom, California. Eurofins|Air Toxics analyzed the samples for tetrachloroethene (PCE) the historical cleaning agent associated with operations at the former Mr. Bob's One Hour Dry Cleaning, and three associated target chemicals; trichloroethene (TCE) and cis- and trans-1,2-dichloroethene (cis- and trans-1,2-DCE) in accordance with the modified United States Environmental Protection Agency (USEPA) Method TO-17. The analytical report for the indoor air and outdoor air background samples is provided in **Attachment 1**.

#### Sub-Slab Soil Vapor Sampling and Analyses

GZA collected an air sample from beneath the slab (referred to as sub-slab soil vapor samples) in the basement of your residence on March 15, 2024, after completion of the indoor air sampling. GZA collected the sub-slab soil vapor sample in a 1-liter, evacuated SUMMA® vacuum canister through one of the sampling ports GZA previously installed through the concrete floor slab.

GZA submitted the sub-slab vapor sample under chain-of-custody to Eurofins Test America of Knoxville, Tennessee for analyses of PCE, TCE, cis- and trans-1,2-DCE, and vinyl chloride in accordance with USEPA Method TO-15. The analytical report for the sub-slab soil vapor sample is provided in **Attachment 2**.

#### Indoor Air Sample Results

The analytical results for the indoor and background air samples collected in February 2022, November 2023, and March 2024, are summarized on **Table 1**. There were no target chemicals detected in the



March 2024 indoor air samples or the background outdoor air sample. There were also no target chemicals detected in the February 2022 and November 2023 indoor air samples.

Sub-Slab Soil Vapor Sample Results

The analytical results for the sub-slab samples collected in February 2022, November 2023, and March 2024, are summarized on **Table 2**. Of the five chemicals included for analysis of the March 2024 sub-slab vapor sample, only PCE was detected. PCE was detected at a concentration of 32 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ), a concentration is less than 2.5% of the Wisconsin Department of Natural Resources (WDNR) allowable residential sub-slab screening level of  $1,400 \mu\text{g}/\text{m}^3$ . The PCE concentration is lower than the  $309 \mu\text{g}/\text{m}^3$  concentration detected in February 2022, and the  $65.9 \mu\text{g}/\text{m}^3$  concentration detected in November 2023. The WDNR established the sub-slab screening levels at concentrations below which indoor air quality is not expected to be adversely affected.

Conclusion

In summary, based on GZA's testing conducted to date, chemicals related to the former Mr. Bob's One Hour Dry Cleaning operation are not having an adverse effect on the indoor air in your home.

Future Sampling

The WDNR requested three rounds of indoor air and sub-slab testing. As the three rounds have been completed with no indoor air or sub-slab results above screening levels, we do not anticipate sampling again. Therefore, we will contact you to schedule removal of the sub-slab probes.

Questions

If you have questions, please call Bernie at (262) 424-2045 or John at (262) 424-2042 at GZA. You may also contact Mr. John Feeney of the WDNR (920-893-8523), if you have any questions related to the work conducted; or Mr. Curtis Hedman of the Wisconsin Department of Health Services (WDHS) (608-266-6677), if you have any health-related questions or concerns associated with the results.

On behalf of Continental, GZA thanks you for your cooperation.

Very truly yours,

**GZA GeoEnvironmental, Inc.**

Bernard G. Fenelon, P.G.  
Senior Consultant  
Hydrogeologist

John C. Osborne, P.G.  
Senior Principal  
Hydrogeologist

J:\156300to156399\156364 Continental WB\01 Source Area Vapor Int Eval\Correspondence\  
Results Letters\2024 04 10 FINAL 156364\_01 980 Lincoln Dr W Braun Third Round SS and IAQ Results Letter.docx

Attachment: Tables 1 and Table 2  
Laboratory Analytical Reports

c: Mr. Eric E. Thom, Continental VI Fund Limited Partnership  
Mr. John Feeney, WDNR  
Mr. Curtis Hedman, WDHS



## TABLES



**TABLE 1**  
**980 LINCOLN DRIVE WEST INDOOR AIR ANALYTICAL RESULTS**  
**Decorah Shopping Center**  
**West Bend, Wisconsin**

Owner	Address - Sample Date	Residential Indoor Air Vapor Action Levels <sup>(3,4)</sup>	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	VC
		( $\mu\text{g}/\text{m}^3$ )	42	42	42	2.1	1.7
Braun	980 Lincoln Drive West-Basement	2/11-12/2022	<0.29	<0.25	<0.44	<0.29	<0.13
	980 Lincoln Drive West-1 <sup>st</sup> Floor	2/11-12/2022	<0.30	<0.26	<0.44	<0.30	<0.13
	980 Lincoln Drive West-Background	2/11-12/2022	<0.27	<0.24	<0.79	<0.28	<0.12
	980 Lincoln Drive West-Basement	11/10-18/2023	<0.14	<0.29	<0.15	<0.12	NA
	980 Lincoln Drive West-1 <sup>st</sup> Floor	11/10-18/2023	<0.14	<0.29	<0.15	<0.12	NA
	980 Lincoln Drive West-Background	11/10-18/2023	<0.14	<0.29	<0.15	<0.12	NA
	980 Lincoln Drive West-Basement	3/7-15/2024	<0.14	<0.29	<0.15	<0.12	NA
	980 Lincoln Drive West-1 <sup>st</sup> Floor	3/7-15/2024	<0.14	<0.29	<0.15	<0.12	NA
	980 Lincoln Drive West-Background	3/7-15/2024	<0.14	<0.29	<0.15	<0.12	NA

**Notes:**

1. Sub-slab vapor samples were collected by GZA GeoEnvironmental, Inc. from sub-slab vapor monitoring points for analysis by Pace Analytical, Inc. or Eurofins for cis-1,2-dichloroethene, tetrachloroethene, trichloroethene and vinyl chloride in accordance with Modified EPA Method TO-15.
2. Results are provided in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).
3. Screening levels (January 2023) are obtained from a WDNR webpage at the following link: <https://dnr.wi.gov/DocLink/RR/RR0136.pdf>.
4. Concentrations below the screening values are considered acceptable for occupancy of the building.
5. 2015 USEPA Vapor Intrusion guidance provides a minimum 30 times attenuation factor between the sub-slab and indoor air concentrations.
6. If any, values that exceed WDNR Vapor Action levels (VALs) are underlined and in italics.



**TABLE 2**  
**980 LINCOLN DRIVE WEST SUB-SLAB VAPOR ANALYTICAL RESULTS**  
**Decorah Shopping Center**  
**West Bend, Wisconsin**

Owner	Address - Sample	Sub-Slab Residential Vapor Inhalation Screening Levels <sup>(3,4)</sup> ( $\mu\text{g}/\text{m}^3$ )	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	VC
			1,400	1,400	1,400	70	56
Braun	980 Lincoln Drive West-South-SS	2/12/2022	<0.27	<0.23	<b>24.4</b>	<0.27	<0.12
	980 Lincoln Drive West-North-SS	2/12/2022	<0.27	<0.24	<b>309</b>	<b>1.6</b>	<0.12
	980 Lincoln Drive West-North-SS	11/18/2023	<0.311	<0.267	<b>65.9</b>	<0.364	<0.243
	980 Lincoln Drive West-North-SS	3/15/2024	<0.99	<1.3	<b>32</b>	<1.8	<1.7

**Notes:**

1. Indoor-Air samples were collected by GZA GeoEnvironmental, Inc. for analysis by Eurofins or Pace Analytical, Inc. for cis-1,2-dichloroethene, tetrachloroethene, trichloroethene and vinyl chloride in accordance with USEPA Method TO-15 or TO-17.
2. Results are provided in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).
3. Screening levels (January 2023) are obtained from a WDNR webpage at the following link: <https://dnr.wi.gov/DocLink/RR/RR0136.pdf>.
4. Concentrations below the screening values are considered acceptable for occupancy of the building.
5. 2015 USEPA Vapor Intrusion guidance provides a minimum 30 times attenuation factor between the sub-slab and indoor air concentrations.
6. If any, values that exceed WDNR sub-slab Vapor Risk Screening Levels (VRSLs) are underlined and in italics.



**ATTACHMENT 1**

**Laboratory Analytical Report and Chain-of-Custody Documentation  
Indoor Air and Outside Background Air Samples**

3/26/2024

Mr. Bernard Fenelon  
GZA GeoEnvironmental, Inc.  
17975 West Sarah Lane  
Ste 100  
Brookfield WI 53045

Project Name: CONTINENTAL - WEST BEND

Project #: 20.0156364.01

Workorder #: 2403511

Dear Mr. Bernard Fenelon

The following report includes the data for the above referenced project for sample(s) received on 3/19/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. RAD130/SKC 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 #: 2403511**

Work Order Summary

<b>CLIENT:</b>	Mr. Bernard Fenelon GZA GeoEnvironmental, Inc. 17975 West Sarah Lane Ste 100 Brookfield, WI 53045	<b>BILL TO:</b>	Mr. Bernard Fenelon GZA GeoEnvironmental, Inc. 17975 West Sarah Lane Ste 100 Brookfield, WI 53045
<b>PHONE:</b>	262-754-2594	<b>P.O. #</b>	
<b>FAX:</b>	262754-9711	<b>PROJECT #</b>	20.0156364.01 CONTINENTAL -
<b>DATE RECEIVED:</b>	03/19/2024	<b>CONTACT:</b>	WEST BEND Jade White
<b>DATE COMPLETED:</b>	03/26/2024		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	980 LINCOLN DR. W 1ST FLOOR IA	Passive S.E. RAD130/SKC
02A	980 LINCOLN DR. W BASEMENT IA	Passive S.E. RAD130/SKC
03A	980 LINCOLN DR. W BACKGROUND IA	Passive S.E. RAD130/SKC
04A	Lab Blank	Passive S.E. RAD130/SKC
05A	CCV	Passive S.E. RAD130/SKC
06A	LCS	Passive S.E. RAD130/SKC
06AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY:   
 \_\_\_\_\_  
 Technical Director

DATE: 03/26/24

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  
RAD130 Passive SE by Mod EPA TO-17  
GZA GeoEnvironmental, Inc.  
Workorder# 2403511**

Three Radiello 130 (Solvent) samples were received on March 19, 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.

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**

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

To calculate ug/m<sup>3</sup> concentrations in the Lab Blank, a sampling duration of 11545 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

### **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



Air Toxics

**Summary of Detected Compounds  
VOCS BY PASSIVE SAMPLER - GC/MS**

**Client Sample ID: 980 LINCOLN DR. W 1ST FLOOR IA**

**Lab ID#: 2403511-01A**

No Detections Were Found.

**Client Sample ID: 980 LINCOLN DR. W BASEMENT IA**

**Lab ID#: 2403511-02A**

No Detections Were Found.

**Client Sample ID: 980 LINCOLN DR. W BACKGROUND IA**

**Lab ID#: 2403511-03A**

No Detections Were Found.



**Air Toxics**

**Client Sample ID: 980 LINCOLN DR. W 1ST FLOOR IA**

**Lab ID#: 2403511-01A**

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>18032208sim</b>	<b>Date of Collection:</b> 3/15/24 9:30:00 AM
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 3/22/24 11:05 AM
		<b>Date of Extraction:</b> 3/22/24

<b>Compound</b>	<b>Rpt. Limit (ug)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug)</b>	<b>Amount (ug/m3)</b>
Trichloroethene	0.10	0.12	Not Detected	Not Detected
Tetrachloroethene	0.10	0.15	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.14	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.29	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 11539 minutes.

**Container Type: Radiello 130 (Solvent)**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Toluene-d8	98	70-130



Air Toxics

Client Sample ID: 980 LINCOLN DR. W BASEMENT IA

Lab ID#: 2403511-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18032209sim	Date of Collection:	3/15/24 9:32:00 AM
Dil. Factor:	1.00	Date of Analysis:	3/22/24 11:33 AM
		Date of Extraction:	3/22/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.12	Not Detected	Not Detected
Tetrachloroethene	0.10	0.15	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.14	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.29	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 11535 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130



Air Toxics

Client Sample ID: 980 LINCOLN DR. W BACKGROUND IA

Lab ID#: 2403511-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18032210sim	Date of Collection:	3/15/24 9:47:00 AM
Dil. Factor:	1.00	Date of Analysis:	3/22/24 12:02 PM
		Date of Extraction:	3/22/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.12	Not Detected	Not Detected
Tetrachloroethene	0.10	0.15	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.14	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.29	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 11545 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2403511-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18032205sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/22/24 09:20 AM
		Date of Extraction:	3/22/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.12	Not Detected	Not Detected
Tetrachloroethene	0.10	0.15	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.14	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.29	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 11545 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

Client Sample ID: CCV

Lab ID#: 2403511-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18032202sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/22/24 07:57 AM
		Date of Extraction:	NA

Compound	%Recovery
Trichloroethene	105
Tetrachloroethene	107
cis-1,2-Dichloroethene	107
trans-1,2-Dichloroethene	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130



Client Sample ID: LCS

Lab ID#: 2403511-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18032203sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/22/24 08:24 AM
		Date of Extraction:	3/22/24

Compound	%Recovery	Method Limits
Trichloroethene	87	70-130
Tetrachloroethene	82	70-130
cis-1,2-Dichloroethene	86	70-130
trans-1,2-Dichloroethene	89	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130

Client Sample ID: LCSD

Lab ID#: 2403511-06AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18032204sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/22/24 08:52 AM
		Date of Extraction:	3/22/24

Compound	%Recovery	Method Limits
Trichloroethene	76	70-130
Tetrachloroethene	81	70-130
cis-1,2-Dichloroethene	80	70-130
trans-1,2-Dichloroethene	80	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130



Air Toxics

Passive Sorbent Chain of Custody

WO# 2403511

Case Seal #: \_\_\_\_\_

Company: GA Geoenvironmental Inc. Project #: 20.0156364.01 P.O. #:

Project Manager: Bernard Fenelon Project Name: CONTINENTAL - West Bend

Contact phone/email: 262-754-2560 BERNARD.FENELON@GAI.COM Collected by: C. AINSWORTH

Lab I.D.	Sample Identification	Sampler ID	Date of Deployment (mm/dd/yy)	Time of Deployment (hr:min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr:min)	Sample Matrix (check one)				Reporting Units (circle)		Turn Around Time:
							Indoor/Outdoor Air	Soil Gas	Workplace Monitoring	Other	ppbv $\mu\text{g}/\text{m}^3$	ppmv $\text{mg}/\text{m}^3$	
01A	980 LINCOLN DR. W 1ST FLOOR IA	TI 983	3/7/2024	911	3/15/2024	930	<input checked="" type="checkbox"/>						SEE BELOW
02A	980 LINCOLN DR. W BASEMENT IA	TI 981		917		932	<input checked="" type="checkbox"/>						
03A	980 LINCOLN DR. W BACKGROUND IA	TI 984		922		947	<input checked="" type="checkbox"/>						

Relinquished by: (signature)	Date <u>3/15/24</u>	Time <u>1330</u>	Received by: (signature) <u>PER FED EX</u>	Date	Time	Notes to Lab: <u>PLEASE ANALYZE: PCE, TCE, VC, Cis and TRANS 1,2 DLE</u>
Relinquished by: (signature)	Date	Time	Received by: (signature) <u>POL CROSS EATL</u>	Date <u>3/19/24</u>	Time <u>0945</u>	

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.

Lab Use Only			
Shipper Name: <u>FED EX</u>	Custody Seals Intact? <u>Yes</u> <u>No</u> <u>None</u>	Sample Condition Upon Receipt: (circle) <u>Good</u>	SDR
Air Bill #:	Temperature (°C)		



**ATTACHMENT 2**

**Laboratory Analytical Report and Chain-of-Custody Documentation  
Sub-Slab Soil Vapor Samples**



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Bernard Fenelon  
GZA GeoEnvironmental, Inc.  
17975 W Sarah Lane, Suite 100  
Brookfield, Wisconsin 53045

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## JOB DESCRIPTION

Continental - West Bend

## JOB NUMBER

500-247664-1

# Eurofins Chicago

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

## Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

### Definitions of Limits

- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

## Authorization



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Authorized for release by  
Sandie Fredrick, Senior Project Manager  
[Sandra.Fredrick@et.eurofinsus.com](mailto:Sandra.Fredrick@et.eurofinsus.com)  
(920)261-1660



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# Case Narrative

Client: GZA GeoEnvironmental, Inc.  
Project: Continental - West Bend

Job ID: 500-247664-1

**Job ID: 500-247664-1**

**Eurofins Chicago**

## Job Narrative 500-247664-1

### Receipt

The sample was received on 3/19/2024 11:05 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice.

### Air - GC/MS VOA

Methods TO 15 LL, TO-14A, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by Eurofins TestAmerica Knoxville.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Eurofins Chicago





# Detection Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Continental - West Bend

Job ID: 500-247664-1

**Client Sample ID: 930 LINCOLN DR WEST-NORTH SS**

**Lab Sample ID: 500-247664-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4.7		2.0	0.29	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	32		14	2.0	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

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# Method Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Continental - West Bend

Job ID: 500-247664-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET KNX

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000



# Sample Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Continental - West Bend

Job ID: 500-247664-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-247664-1	930 LINCOLN DR WEST-NORTH SS	Air	03/15/24 09:41	03/19/24 11:05	Air Canister (1-Liter) #11140

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Continental - West Bend

Job ID: 500-247664-1

**Client Sample ID: 930 LINCOLN DR WEST-NORTH SS**

**Lab Sample ID: 500-247664-1**

Date Collected: 03/15/24 09:41

Matrix: Air

Date Received: 03/19/24 11:05

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.25		2.0	0.25	ppb v/v			03/29/24 23:38	1
<b>Tetrachloroethene</b>	<b>4.7</b>		2.0	0.29	ppb v/v			03/29/24 23:38	1
trans-1,2-Dichloroethene	<0.33		2.0	0.33	ppb v/v			03/29/24 23:38	1
Trichloroethene	<0.33		2.0	0.33	ppb v/v			03/29/24 23:38	1
Vinyl chloride	<0.65		4.0	0.65	ppb v/v			03/29/24 23:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.99		7.9	0.99	ug/m3			03/29/24 23:38	1
<b>Tetrachloroethene</b>	<b>32</b>		14	2.0	ug/m3			03/29/24 23:38	1
trans-1,2-Dichloroethene	<1.3		7.9	1.3	ug/m3			03/29/24 23:38	1
Trichloroethene	<1.8		11	1.8	ug/m3			03/29/24 23:38	1
Vinyl chloride	<1.7		10	1.7	ug/m3			03/29/24 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140		03/29/24 23:38	1

# Definitions/Glossary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Continental - West Bend

Job ID: 500-247664-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# QC Association Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Continental - West Bend

Job ID: 500-247664-1

## Air - GC/MS VOA

### Analysis Batch: 85010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247664-1	930 LINCOLN DR WEST-NORTH SS	Total/NA	Air	TO-15	
MB 140-85010/4	Method Blank	Total/NA	Air	TO-15	
LCS 140-85010/1002	Lab Control Sample	Total/NA	Air	TO-15	

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# Surrogate Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Continental - West Bend

Job ID: 500-247664-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (60-140)
500-247664-1	930 LINCOLN DR WEST-NORT	101
LCS 140-85010/1002	Lab Control Sample	103
MB 140-85010/4	Method Blank	96

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Continental - West Bend

Job ID: 500-247664-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 140-85010/4**  
**Matrix: Air**  
**Analysis Batch: 85010**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,2-Dichloroethene	<0.025		0.20	0.025	ppb v/v			03/29/24 10:05	1
Tetrachloroethene	<0.029		0.20	0.029	ppb v/v			03/29/24 10:05	1
trans-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			03/29/24 10:05	1
Trichloroethene	<0.033		0.20	0.033	ppb v/v			03/29/24 10:05	1
Vinyl chloride	<0.065		0.40	0.065	ppb v/v			03/29/24 10:05	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,2-Dichloroethene	<0.099		0.79	0.099	ug/m3			03/29/24 10:05	1
Tetrachloroethene	<0.20		1.4	0.20	ug/m3			03/29/24 10:05	1
trans-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			03/29/24 10:05	1
Trichloroethene	<0.18		1.1	0.18	ug/m3			03/29/24 10:05	1
Vinyl chloride	<0.17		1.0	0.17	ug/m3			03/29/24 10:05	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		60 - 140		03/29/24 10:05	1

**Lab Sample ID: LCS 140-85010/1002**  
**Matrix: Air**  
**Analysis Batch: 85010**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
cis-1,2-Dichloroethene	1.60	1.68		ppb v/v		105	70 - 130
Tetrachloroethene	1.60	1.71		ppb v/v		107	70 - 130
trans-1,2-Dichloroethene	1.60	1.66		ppb v/v		104	70 - 130
Trichloroethene	1.60	1.70		ppb v/v		106	70 - 130
Vinyl chloride	1.60	1.79		ppb v/v		112	70 - 130

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
cis-1,2-Dichloroethene	6.3	6.67		ug/m3		105	70 - 130
Tetrachloroethene	11	11.6		ug/m3		107	70 - 130
trans-1,2-Dichloroethene	6.3	6.60		ug/m3		104	70 - 130
Trichloroethene	8.6	9.11		ug/m3		106	70 - 130
Vinyl chloride	4.1	4.57		ug/m3		112	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		60 - 140



# Lab Chronicle

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Continental - West Bend

Job ID: 500-247664-1

**Client Sample ID: 930 LINCOLN DR WEST-NORTH SS**

**Lab Sample ID: 500-247664-1**

**Date Collected: 03/15/24 09:41**

**Matrix: Air**

**Date Received: 03/19/24 11:05**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Analysis	TO-15		1	85010	S1K	EET KNX	03/29/24 23:38

**Laboratory References:**

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

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# Accreditation/Certification Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Continental - West Bend

Job ID: 500-247664-1

## Laboratory: Eurofins Knoxville

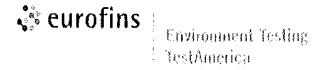
The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998044300	08-31-24

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Eurofins TestAmerica, Knoxville  
5815 Middlebrook Pike

# Canister Samples Chain of Custody Record



TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

Knoxville, TN 37921-5947  
phone 865.291.3000 fax 865.584.4315

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

<b>Client Contact Information</b>			Client Project Manager: <u>Bernard Kozul</u>				Samples Collected By: <u>C. Anwar</u>				COC No: _____			
Company Name: <u>GZA Geo Environmental Inc.</u>			Phone: _____								_____ of _____ COCs			
Address: <u>17475 West Sahara Lane Ste 100</u>			Email: _____								TALS Project #: _____			
City/State/Zip: <u>Brookfield, WI 53045</u>											For Lab Use Only:			
Phone: _____			Site Contact: _____								Walk-in Client: _____			
FAX: _____			Tel/Fax: _____								Lab Sampling: _____			
Project Name: <u>CONFIDENTIAL - WEST BEND</u>			Analysis Turnaround Time								Job / SDG No.: _____			
Site/Location: <u>WEST BEND, WI</u>			Standard (Specific): <u>NORMAL</u>								(See below for Add'l Items)			
P O #			Rush (Specify): _____											

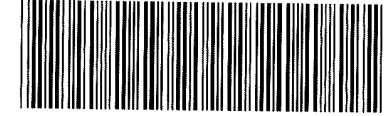
Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
980 LINCOLN DR WEST - NORMALS	3/15/24	9:29	3/15/24	9:41	-28	-4	11947	11140	X									X					

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			
Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments: PLEASE ANALYZE: C13 AND TCA'S 62 DCE; PCE; TCE; V

Samples Shipped by: <u>[Signature]</u>	Date / Time: <u>3/15/24 1330</u>	Samples Received by: <u>PCR P...</u>
Samples Relinquished by: _____	Date / Time: _____	Received by: <u>Chr Remm 3-18-24 1105</u>
Relinquished by: _____	Date / Time: _____	Received by: _____

Lab Use Only:	Shipper Name: _____	Opened by: _____	Condition: _____
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500-247664 Chain of Custody

Form No. CA-C-WI-003, Rev. 2.23, dated 5/4/2020

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4/21/2024



EUROFINS KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken														
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	<p>Custody Seal Intact Received ambient CAL 3-18-24 Excode/GH712509025177 2 6L cans / 6 1L cans / 8 flows</p> <p>Labeling Verified by: _____ Date: _____</p> <p>pH test strip lot number: _____</p> <table border="1"> <tr> <td>Box 16A: pH Preservation</td> <td>Box 18A: Residual Chlorine</td> </tr> <tr> <td>Preservative: _____</td> <td></td> </tr> <tr> <td>Lot Number: _____</td> <td></td> </tr> <tr> <td>Exp Date: _____</td> <td></td> </tr> <tr> <td>Analyst: _____</td> <td></td> </tr> <tr> <td>Date: _____</td> <td></td> </tr> <tr> <td>Time: _____</td> <td></td> </tr> </table>	Box 16A: pH Preservation	Box 18A: Residual Chlorine	Preservative: _____		Lot Number: _____		Exp Date: _____		Analyst: _____		Date: _____		Time: _____	
Box 16A: pH Preservation	Box 18A: Residual Chlorine																		
Preservative: _____																			
Lot Number: _____																			
Exp Date: _____																			
Analyst: _____																			
Date: _____																			
Time: _____																			
2. Were ambient air containers received intact?			/	<input checked="" type="checkbox"/> Checked in lab															
3. The coolers/containers custody seal if present, is it intact?	/			<input type="checkbox"/> Yes <input type="checkbox"/> NA															
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : <u>SC 76</u> Correction factor: <u>+0.2 °C</u>			/	<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt															
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken															
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel															
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received															
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received															
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted															
10. Was the sampler identified on the COC?	/			<input type="checkbox"/> Sampler Not Listed on COC															
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete															
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC															
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete															
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete															
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt															
16. Were samples received with correct chemical preservative (excluding Encore)?			/	<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative															
17. Were VOA samples received without headspace?			/	<input type="checkbox"/> Headspace (VOA only)															
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____			/	<input type="checkbox"/> Residual Chlorine															
19. For 1613B water samples is pH<9?			/	<input type="checkbox"/> If no, notify lab to adjust															
20. For rad samples was sample activity info. Provided?			/	<input type="checkbox"/> Project missing info															
Project #: <u>50619193</u> PM Instructions: _____																			

Sample Receiving Associate: em Deenan

Date: 3-18-24

QA026R33.doc, 11/10/23



### Eurofins Knoxville - Air Canister Initial Pressure Check

Gauge ID:           G5          

Date/Time:   3/17/24 1319  

Analyst	Sample ID	Pressure @ Receipt (-in Hg or +psig)/initial pressurisation (if applicable)	Asset #	Cleaning Job	Cert Type	Size (L)	Comments
ACE	500-247664-a-1	-3.1	11140	140-35021-a-7	B	1	

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