

GEOTECHNICAL

ENVIRONMENTAL

ECOLOGICAL

WATER

CONSTRUCTION MANAGEMENT

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www.gza.com



July 28, 2021

Mr. Edward L. Krepsky 961 Lincoln Drive West West Bend, Wisconsin 53095-4724

Re: Results of Sub-Slab and Indoor Air Testing

961 Lincoln Drive West West Bend, Wisconsin

## Dear Mr. Krepsky:

On behalf of Continental VI Fund Limited Partnership (Continental), GZA GeoEnvironmental, Inc. (GZA) thanks you for allowing us access to conduct indoor air testing in your residence in June 2021. As further described below, the results of the vapor testing we conducted were found to be within allowable State levels for the chemicals that would typically be associated with the former Mr. Bob's One Hour Dry Cleaning that once operated at 1025 South Main Street (former Decorah Shopping Center). The sample collection and testing were conducted in accordance with applicable guidance issued by the Wisconsin Department of Natural Resources (WDNR) for such vapor sampling.

## Indoor Air and Sub-Slab Soil Vapor Sampling and Analysis

GZA collected three indoor air samples from the basement, first floor, and second floor levels of your residence at 961 Lincoln Drive West and an outside air background sample over a 24-hour period from June 1 to 2, 2021. The indoor air and outdoor air background samples were collected in 6-liter SUMMA® vacuum canisters over a 24-hour sampling period.

GZA also collected two air samples from beneath the slab (referred to as sub-slab soil vapor samples) of your residence on June 2, 2021, after completion of the indoor air sampling. The sub-slab soil vapor samples were collected in 1-liter SUMMA® vacuum canisters through sampling ports GZA previously installed through the concrete floor slab.

The samples were submitted under chain-of-custody to Pace Analytical Services, LLC of Minneapolis, Minnesota for analysis. The indoor and background air samples and sub-slab soil vapor samples were analyzed for the historical cleaning agent associated with operations at the former Mr. Bob's One Hour Dry Cleaning, tetrachloroethene (PCE) and related chemicals to which PCE degrades consisting of trichloroethene (TCE), cis- and trans-1,2-dichlroethene (cis-and trans-1,2-DCE), and vinyl chloride. The analyses were conducted in accordance with United States Environmental Protection Agency (USEPA) Method TO-15. The analytical report for the sub-slab and indoor air samples is attached.

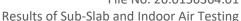
#### Sub-Slab Soil Vapor Sample Results

Of the five chemicals included for analysis, only the dry-cleaning agent PCE was detected in the subslab vapor samples. PCE was detected at concentrations of 22.0 micrograms per cubic meter ( $\mu g/m^3$ ) and 76.7  $\mu g/m^3$  in the two sub-slab vapor samples. Even the higher of the two reported concentrations is well below (approximately 5%) the WDNR allowable residential sub-slab screening level of 1,400  $\mu g/m^3$ . The WDNR's sub-slab screening level is established at a concentration below which indoor air is not expected to have an adverse impact on human health.

# **Indoor Air Sample Results**

The dry-cleaning agent PCE was detected in the basement indoor air sample at  $0.88 \, \mu g/m^3$ , in the first-floor indoor air sample at  $1.2 \, \mu g/m^3$ , and in the second-floor indoor air sample at  $1.4 \, \mu g/m^3$ . PCE was also detected in the outside air background sample at  $0.20 \, \mu g/m^3$ . The highest of the four reported concentrations is just 3.3% of the WDNR's residential indoor air vapor action level of  $42 \, \mu g/m^3$ . This indoor air standard is a health-based standard established by the State of Wisconsin to protect human







health. Because PCE was detected in the outside air background sample, a portion of the PCE detected inside of the residence likely originates from the outside air.

TCE was detected in the first-floor indoor air sample at  $0.12~\mu g/m^3$  and in the second-floor sample at  $0.071~\mu g/m^3$ . The higher of the two reported concentrations is just approximately 6% of the WDNR's residential indoor air vapor action level of  $2.1~\mu g/m^3$ . Because TCE was not detected in either of the sub-slab soil vapor samples or the basement indoor air sample, its detection in the first- and second-floor samples is unlikely to be related to chemicals from the former Mr. Bob's One Hour Dry Cleaning operation. In any event, regardless of the source, the levels detected are well below the health-based standard for this substance.

Trans-1,2-DCE was detected in the first-floor indoor air sample at  $3.9 \mu g/m^3$  and in the second-floor sample at  $0.16 \mu g/m^3$ . Trans-1,2-DCE was also detected in the outside air background sample at  $0.82 \mu g/m^3$ . The WDNR has not established an indoor air vapor action level for trans-1,2-DCE. Because trans-1,2-DCE was not detected in either of the sub-slab soil vapor samples or the basement indoor air sample and was detected in the outside air background sample, its detection in the first- and second-floor samples is unlikely to be related to chemicals from the former Mr. Bob's One Hour Dry Cleaning operation.

Cis-1,2-DCE was detected in the first-floor indoor air sample at  $0.077 \,\mu\text{g/m}^3$ . The WDNR has not established an indoor air vapor action level for cis-1,2-DCE. Because cis-1,2-DCE was not detected in either of the sub-slab soil vapor samples or the basement indoor air sample, its detection in the first-floor sample is unlikely to be related to chemicals from the former Mr. Bob's One Hour Dry Cleaning operation.

In summary, based on the testing we conducted, 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 residence.

## **Future Sampling**

At this time, GZA is submitting these results to the WDNR for its consideration and will be in communication with you on whether a third round of confirmatory sampling in the fall of this year at your residence is believed to be necessary.

#### Questions

If you have questions, please call Bernie Fenelon at (262) 424-2045 or John Osborne 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\2021 07 28 FINAL 156364.01 961 Lincoln Dr W SS and IAQ Results Letter.docx

Attachment: Laboratory Analytical Report

c: Mr. Eric E. Thom, Continental VI Fund Limited Partnership

Mr. John Feeney, WDNR

Mr. Curtis Hedman, WDHS





June 10, 2021

Bernard Fenelon GZA GeoEnvironmental 20900 Swenson Drive Suite 150 Waukesha, WI 53186

RE: Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

#### Dear Bernard Fenelon:

Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirsten Hogberg

Kingh Heaphorf

kirsten.hogberg@pacelabs.com

(612)607-1700

Project Manager

Enclosures





## **CERTIFICATIONS**

Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01\*

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air

Lab

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009\*

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014\* Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929

Colorado Certification #: MN00064 Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW

Certification #: via MN 027-053-137 Florida Certification #: E87605\* Georgia Certification #: 959 Hawaii Certification #: MN00064 Idaho Certification #: MN00064 Illinois Certification #: 200011 Indiana Certification #: C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167

Kentucky DW Certification #: 90062 Kentucky WW Certification #: 90062 Louisiana DEQ Certification #: AI-03086\* Louisiana DW Certification #: MN00064 Maine Certification #: MN00064\*

Maryland Certification #: 322 Michigan Certification #: 9909

Minnesota Certification #: 027-053-137\*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240\* Mississippi Certification #: MN00064 Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081\*
New Jersey Certification #: MN002
New York Certification #: 11647\*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244

North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification (1700) #: CL101 Ohio VAP Certification (1800) #: CL110\* Oklahoma Certification #: 9507\*

Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001\*
Pennsylvania Certification #: 68-00563\*
Puerto Rico Certification #: MN00064
South Carolina Certification #: TN02818
Tennessee Certification #: TN02818
Texas Certification #: T104704192\*
Utah Certification #: MN00064\*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163\*

Washington Certification #: C486\*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

\*Please Note: Applicable air certifications are denoted with

an asterisk (\*).



## **SAMPLE SUMMARY**

Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10563511001	961 LINCOLN DRIVE WEST- BACKGRO	Air	06/02/21 09:19	06/03/21 10:10
10563511002	961 LINCOLN DRIVE WEST- BASEMEN	Air	06/02/21 09:08	06/03/21 10:10
10563511003	961 LINCOLN DRIVE WEST-1ST FLO	Air	06/02/21 09:22	06/03/21 10:10
10563511004	961 LINCOLN DRIVE WEST-2ND FLO	Air	06/02/21 09:20	06/03/21 10:10
10563511005	961 LINCOLN DRIVE WEST- SOUTH S	Air	06/02/21 10:23	06/03/21 10:10
10563511006	961 LINCOLN DRIVE WEST- NORTH S	Air	06/02/21 10:33	06/03/21 10:10
10563511007	Unused Canister #2413	Air		06/03/21 10:10
10563511008	Unused Canister #0630	Air		06/03/21 10:10



## **SAMPLE ANALYTE COUNT**

Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10563511001	961 LINCOLN DRIVE WEST-BACKGRO	TO-15	MJL	5	PASI-M
10563511002	961 LINCOLN DRIVE WEST-BASEMEN	TO-15	MJL	5	PASI-M
10563511003	961 LINCOLN DRIVE WEST-1ST FLO	TO-15	MJL	5	PASI-M
10563511004	961 LINCOLN DRIVE WEST-2ND FLO	TO-15	MJL	5	PASI-M
10563511005	961 LINCOLN DRIVE WEST-SOUTH S	TO-15	EMC	5	PASI-M
10563511006	961 LINCOLN DRIVE WEST-NORTH S	TO-15	EMC	5	PASI-M

PASI-M = Pace Analytical Services - Minneapolis



## **SUMMARY OF DETECTION**

Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10563511001	961 LINCOLN DRIVE WEST- BACKGRO					
TO-15	trans-1,2-Dichloroethene	0.82	ug/m3	0.12	06/06/21 00:29	
TO-15	Tetrachloroethene	0.20	ug/m3	0.11	06/06/21 00:29	
10563511002	961 LINCOLN DRIVE WEST- BASEMEN					
TO-15	Tetrachloroethene	0.88	ug/m3	0.11	06/06/21 01:06	
10563511003	961 LINCOLN DRIVE WEST-1ST FLO					
TO-15	cis-1,2-Dichloroethene	0.077J	ug/m3	0.18	06/06/21 01:47	
TO-15	trans-1,2-Dichloroethene	3.9	ug/m3	0.18	06/06/21 01:47	
TO-15	Tetrachloroethene	1.2	ug/m3	0.16	06/06/21 01:47	
TO-15	Trichloroethene	0.12	ug/m3	0.12	06/06/21 01:47	
0563511004	961 LINCOLN DRIVE WEST-2ND FLO					
TO-15	trans-1,2-Dichloroethene	0.16	ug/m3	0.12	06/06/21 02:24	
TO-15	Tetrachloroethene	1.4	ug/m3	0.11	06/06/21 02:24	
TO-15	Trichloroethene	0.071J	ug/m3	0.085	06/06/21 02:24	
0563511005	961 LINCOLN DRIVE WEST- SOUTH S					
TO-15	Tetrachloroethene	22.0	ug/m3	2.3	06/08/21 23:02	
0563511006	961 LINCOLN DRIVE WEST- NORTH S					
TO-15	Tetrachloroethene	76.7	ug/m3	2.3	06/08/21 23:30	
			-			



#### **PROJECT NARRATIVE**

Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Method: TO-15

Description: TO15 MSV AIR

Client: GZA GeoEnvironmental

Date: June 10, 2021

#### **General Information:**

2 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### **Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### **Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

## Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

## **Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

## **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

## **Additional Comments:**



#### **PROJECT NARRATIVE**

Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Method: TO-15

**Description:** TO15 MSV AIR SIM SCAN **Client:** GZA GeoEnvironmental

Date: June 10, 2021

#### **General Information:**

4 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### **Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### **Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

## **Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

## **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

## **Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

Matrix: Air

06/06/21 00:29 156-59-2

06/06/21 00:29 156-60-5

06/06/21 00:29 127-18-4

06/06/21 00:29 79-01-6

06/06/21 00:29 75-01-4



#### **ANALYTICAL RESULTS**

Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Sample: 961 LINCOLN DRIVE

cis-1,2-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

trans-1,2-Dichloroethene

Date: 06/10/2021 03:24 PM

Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual

TO15 MSV AIR SIM SCAN

Analytical Method: TO-15
Pace Analytical Services - Minneapolis

0.12

0.12

0.11

0.085

0.040

Collected: 06/02/21 09:19

0.031

0.027

0.018

0.043

0.023

1.55

1.55

1.55

1.55

1.55

Received: 06/03/21 10:10

Lab ID: 10563511001

ug/m3

ug/m3

ug/m3

ug/m3

ug/m3

<0.031

0.82

0.20

<0.043

<0.023



Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Date: 06/10/2021 03:24 PM

Sample: 961 LINCOLN DRIVE Lab ID: 10563511002 Collected: 06/02/21 09:08 Received: 06/03/21 10:10 Matrix: Air

WEST-BASEMEN

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR SIM SCAN	,	Method: TO- ytical Service	15 es - Minneapo	lis					
cis-1,2-Dichloroethene	<0.031	ug/m3	0.12	0.031	1.55		06/06/21 01:06	156-59-2	
trans-1,2-Dichloroethene	<0.027	ug/m3	0.12	0.027	1.55		06/06/21 01:06	156-60-5	
Tetrachloroethene	0.88	ug/m3	0.11	0.018	1.55		06/06/21 01:06	127-18-4	
Trichloroethene	< 0.043	ug/m3	0.085	0.043	1.55		06/06/21 01:06	79-01-6	
Vinyl chloride	<0.023	ug/m3	0.040	0.023	1.55		06/06/21 01:06	75-01-4	



Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Date: 06/10/2021 03:24 PM

Sample: 961 LINCOLN DRIVE Lab ID: 10563511003 Collected: 06/02/21 09:22 Received: 06/03/21 10:10 Matrix: Air

WEST-1ST FLO

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR SIM SCAN	•	Method: TO- ytical Service	15 es - Minneapo	lis					
cis-1,2-Dichloroethene	0.077J	ug/m3	0.18	0.044	2.25		06/06/21 01:47	156-59-2	
trans-1,2-Dichloroethene	3.9	ug/m3	0.18	0.039	2.25		06/06/21 01:47	156-60-5	
Tetrachloroethene	1.2	ug/m3	0.16	0.027	2.25		06/06/21 01:47	127-18-4	
Trichloroethene	0.12	ug/m3	0.12	0.063	2.25		06/06/21 01:47	79-01-6	
Vinyl chloride	<0.034	ug/m3	0.058	0.034	2.25		06/06/21 01:47	75-01-4	



Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Date: 06/10/2021 03:24 PM

Sample: 961 LINCOLN DRIVE Lab ID: 10563511004 Collected: 06/02/21 09:20 Received: 06/03/21 10:10 Matrix: Air

WEST-2ND FLO

WEST END I ES									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR SIM SCAN	,	Method: TO- ytical Service	15 es - Minneapol	lis					
cis-1,2-Dichloroethene	<0.031	ug/m3	0.12	0.031	1.55		06/06/21 02:24	156-59-2	
trans-1,2-Dichloroethene	0.16	ug/m3	0.12	0.027	1.55		06/06/21 02:24	156-60-5	
Tetrachloroethene	1.4	ug/m3	0.11	0.018	1.55		06/06/21 02:24	127-18-4	
Trichloroethene	0.071J	ug/m3	0.085	0.043	1.55		06/06/21 02:24	79-01-6	
Vinyl chloride	<0.023	ug/m3	0.040	0.023	1.55		06/06/21 02:24	75-01-4	



Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Date: 06/10/2021 03:24 PM

Sample: 961 LINCOLN DRIVE Lab ID: 10563511005 Collected: 06/02/21 10:23 Received: 06/03/21 10:10 Matrix: Air

WEST-SOUTH S

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	•	Method: TO-	15 es - Minneapo	lis					
cis-1,2-Dichloroethene	<0.33	ug/m3	1.4	0.33	1.68		06/08/21 23:02	156-59-2	
trans-1,2-Dichloroethene	<0.28	ug/m3	1.4	0.28	1.68		06/08/21 23:02	156-60-5	
Tetrachloroethene	22.0	ug/m3	2.3	0.49	1.68		06/08/21 23:02	127-18-4	
Trichloroethene	<0.33	ug/m3	0.92	0.33	1.68		06/08/21 23:02	79-01-6	
Vinyl chloride	<0.15	ug/m3	0.44	0.15	1.68		06/08/21 23:02	75-01-4	



Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Date: 06/10/2021 03:24 PM

Sample: 961 LINCOLN DRIVE Lab ID: 10563511006 Collected: 06/02/21 10:33 Received: 06/03/21 10:10 Matrix: Air

WEST-NORTH S

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	,	Method: TO-	15 es - Minneapo	lis					
cis-1,2-Dichloroethene	<0.33	ug/m3	1.4	0.33	1.68		06/08/21 23:30	156-59-2	
trans-1,2-Dichloroethene	<0.28	ug/m3	1.4	0.28	1.68		06/08/21 23:30	156-60-5	
Tetrachloroethene	76.7	ug/m3	2.3	0.49	1.68		06/08/21 23:30	127-18-4	
Trichloroethene	<0.33	ug/m3	0.92	0.33	1.68		06/08/21 23:30	79-01-6	
Vinyl chloride	<0.15	ug/m3	0.44	0.15	1.68		06/08/21 23:30	75-01-4	



## **QUALITY CONTROL DATA**

Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Date: 06/10/2021 03:24 PM

QC Batch: 747590 Analysis Method: TO-15

QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10563511005, 10563511006

METHOD BLANK: 3987548 Matrix: Air

Associated Lab Samples: 10563511005, 10563511006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.20	0.81	06/08/21 09:13	
Tetrachloroethene	ug/m3	< 0.29	1.4	06/08/21 09:13	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	06/08/21 09:13	
Trichloroethene	ug/m3	<0.20	0.55	06/08/21 09:13	
Vinyl chloride	ug/m3	<0.087	0.26	06/08/21 09:13	

LABORATORY CONTROL SAMPLE:	3987549	0 "			0/ <b>D</b>	
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
	-					Qualificio
cis-1,2-Dichloroethene	ug/m3	43.4	47.4	109	70-137	
Tetrachloroethene	ug/m3	73.4	77.6	106	70-130	
trans-1,2-Dichloroethene	ug/m3	43.6	48.5	111	70-130	
Trichloroethene	ug/m3	58.4	63.3	108	70-130	
Vinyl chloride	ug/m3	28	31.2	111	70-137	
Vinyl chloride	ug/m3	28	31.2	111	70-137	

SAMPLE DUPLICATE: 3990663						
		10563502001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.31		25	
Tetrachloroethene	ug/m3	2.7	2.8	3	25	
trans-1,2-Dichloroethene	ug/m3	ND	< 0.27		25	
Trichloroethene	ug/m3	ND	< 0.32		25	
Vinyl chloride	ug/m3	ND	<0.14		25	

SAMPLE DUPLICATE: 3990664						
		10563502002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.30		25	
Tetrachloroethene	ug/m3	ND	< 0.45		25	
trans-1,2-Dichloroethene	ug/m3	ND	< 0.26		25	
Trichloroethene	ug/m3	ND	< 0.30		25	
Vinyl chloride	ug/m3	ND	<0.13		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



#### **QUALITY CONTROL DATA**

Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

QC Batch: 746917 Analysis Method: TO-15

QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR SIM SCAN

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10563511001, 10563511002, 10563511003, 10563511004

METHOD BLANK: 3984564 Matrix: Air

Associated Lab Samples: 10563511001, 10563511002, 10563511003, 10563511004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.020	0.081	06/05/21 11:30	
Tetrachloroethene	ug/m3	< 0.012	0.069	06/05/21 11:30	
trans-1,2-Dichloroethene	ug/m3	< 0.017	0.081	06/05/21 11:30	
Trichloroethene	ug/m3	< 0.028	0.055	06/05/21 11:30	
Vinyl chloride	ug/m3	<0.015	0.026	06/05/21 11:30	

LABORATORY CONTROL SAMPLE:	3984565					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	0.43	0.50	114	70-137	
Tetrachloroethene	ug/m3	0.73	0.81	110	70-130	
trans-1,2-Dichloroethene	ug/m3	0.44	0.49	113	70-130	
Trichloroethene	ug/m3	0.58	0.63	108	70-130	
Vinyl chloride	ug/m3	0.28	0.31	109	70-137	

SAMPLE DUPLICATE: 3984664

Date: 06/10/2021 03:24 PM

		60371009021	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	5.1	5.3	4	25	
Tetrachloroethene	ug/m3	0.32	0.32	0	25	
trans-1,2-Dichloroethene	ug/m3	0.055J	0.056J		25	
Trichloroethene	ug/m3	5.9	5.8	2	25	
Vinyl chloride	ug/m3	0.055	0.053	3	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



#### **QUALIFIERS**

Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

#### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 06/10/2021 03:24 PM



## **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 20.0156364.00 CONTINENTAL-WEST

Pace Project No.: 10563511

Date: 06/10/2021 03:24 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10563511005	961 LINCOLN DRIVE WEST- SOUTH S	TO-15	747590		
10563511006	961 LINCOLN DRIVE WEST- NORTH S	TO-15	747590		
10563511001	961 LINCOLN DRIVE WEST- BACKGRO	TO-15	746917		
10563511002	961 LINCOLN DRIVE WEST- BASEMEN	TO-15	746917		
10563511003	961 LINCOLN DRIVE WEST-1ST FLO	TO-15	746917		
10563511004	961 LINCOLN DRIVE WEST-2ND FLO	TO-15	746917		



# AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Inform										59465 Page:   of (							
COMPANY GOOGNOON AT FIX	Report To:	2D FEA	Low	Attention: GZA-BCZ		Program												
17975 W. SARAN LN STE 100	Copy To:			Company Name									□ UST □	•				
Brookfiero, WI 53045	best face to dam	s1-4.305 m	mine in	Address:					M30203		ribus		☐ Voluntary C	lean Up	Dry Clean			ther
inall To: PRIARD, FENCIO: PESZA. LON MONEY 154-2565 Fax:	Purchase Order No.:		Pace Quote Reference:									Location of	nez Ir	10	Reportin ug/m³	mg/m <sup>3</sup> _		
hone: 754-2560 Fax:	Project Name: CONTINENTAL Project Number:	WEST	BEND	Pace Project Mana	ger/Sales R	ер.							Sampling by S	State	WI	PPBV Other	PPMV_	
Requested Due Date/TAT:		01563	364.00	Pace Profile #:		3	942	7					Report Level	11 111.	IV	Other_	-	
'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP PM10	MEDIA CODE PID Reading (Client only)		COLLECTED	MPOSITE - DIGRAB	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	C	mma Can mber		Flow Contro	ol	Method:	7 (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	70,755/m/1/8/10Cs 70,755/m/1/8/10Cs 70,55/m/1/8/10Cs	Short List Chominated	Pace Lal	b ID
1 961 LINCOLN DRIVE WAST.	RAKE DOWN TA	2	6/1/21	923 4/21	919	-30	-4	35	5 5 8	3 )	39	12			J.		oi	
2 96 I LINCOLN DRIVE WOST-1			1	927	908	-29	-5	05			86				4	C	or	
3 961 LINCOLNDANTE WEST-	1ST Line IA			930	922	-29	-20	15				0			4	a	3	
4 961 LINEOUN DRIVE WEST-		52050 537	devil e A	933	920	-30	-5	12				50			4	a	94	-
5 961 Lineary Drive West			6/2/21	1000	1023	-30		29	66	2		06			ż	ù	is	
6 961 Liniour Danz WEST			1	1022	1033	-30		31	5		02				4	a	مال	
7 8 5000 and 40 and 40 and 50					4.39.61						JO      0563	#	: <b>105</b>	63	511			
omments :	RI	ELINQUIS	HED BY / A	AFFILIATION	DATE	TII	ME	ACCE	PTED E	Y / AF	FILIAT	ION	DATE	TIMI	SA SA	MPLE C	ONDITIO	ONS
PLEASE ANAWZE:			-1		6/2/21	120	20	PER	2 Fee	E						N/	N/Y	N.
- PCE	a ship satt an		0 1105 77	i bodavaso se			2.74	CA	11-	1)	PAC	E	6.3.21	wie	)  -	-3	È	Z.
- PCE -TCE								0	0	1	SEE LEE	d lo	1000000	1777	Ann no:	N.	N.	Z X
•		T a														× ×	Z >	Z >
- VC - Cis and Tear		iai eo ik			ER NAME A e of SAMPLER: for SAMPLER:			TNIS	wen		Signed (M	MM //DE	1/2-1		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact



# Document Name:

# Sample Condition Upon Receipt (SCUR) - Air

Document No.:

Document Revised: 24Mar2020 Page 1 of 1

Pace Analytical Services -

# ENV-FRM-MIN4-0113 Rev.00

Minneapolis

Air Sample Condition Upon Receipt		Project #: WO#: 1056351						.1				
	GHA CT	TUPS	Писпс		Jelian			PM: KNH		Due Date:	06/10/2	21
	Pace	SpeeDee	USPS Comn	ــا . nercial	Client				GZA GEO		00/20/2	•
Tracking Number:	9753 8	442 986	1, 9872			]						
Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No												
Packing Material:	ubble Wrap	☐Bubble B	ags <b>X</b> Foa	m _	]None	Tin	Car	Other	:	Temp	Blank rec: [	]Yes <b>⊠</b> No
Temp. (T017 and T013 sam	nples only) (°C)	_X	Corrected Ter	np (°C):	×	2			Thermom	eter Used:	☐G87A917	
Temp should be above free	ezing to 6°C	Correction Fact	tor:	2		Da	ite &	Initials of Pe	erson Examinir	ng Contents:	6-3.2	
Type of ice Received		71.000 E	-		_					_	0,0	
		7								Comments:		
Chain of Custody Present?			X	es [	]No		1.			comments.		
Chain of Custody Filled Out	:?		Ø		 ]No	A CORPORATION	2.		***************************************			
Chain of Custody Relinquish	hed?		X	es [	No		3.	5				
Sampler Name and/or Sign	ature on COC?		X	es [	No	□N/A	4.					
Samples Arrived within Hol	d Time?		X		No		5.					
Short Hold Time Analysis (					No		6.					
Rush Turn Around Time Re Sufficient Volume?	equested?				No		7.					
Correct Containers Used?			<u>X</u>	es L	No		8.				***************************************	
(Tedlar bags not accept	table contai	ner for TO-1	.4,									
TO-15 or APH)			<b>⋈</b>	es [	No		9.					·
-Pace Containers Used?	***************************************			'es	No		<u> </u>					
Containers Intact?												
(visual inspection/no le Media: Air Can	<u>·</u>		TDT 📈		No		10	).				
	Airbag			assive			11	l. Indi	vidually Certif	ied Cans Y	N (list whi	ch samples)
Is sufficient information available the COC?	ailable to reco	ncile samples t	·• 🔽	′os [	No		12	,				
Do cans need to be pressur	rized?			c3 _	7140		12	•				
(DO NOT PRESSURIZE	E 3C or AST	M 1946!!!)	<b>DX</b>	es [	No		13	3.				
		C# [	,						1007		~	
			] 10AIR26	10	41K34		UAI	R35 ∐4	1097			
	Cani	sters Flow	Initial	Fin					Cai	nisters	Initial	Final
Sample Number	Can ID	Controller	Pressure	Press		Sam	ple	Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
BACKGEOUND	3558	1392	-4	+5								4-10
BASEMENT	0571	2860	-4	15								
1ST FLOOR	1537	0300	-21	m	-							
2nd Flowe	1263	1450	-4	h	:							
South	2966	2906	U	tre	٠							
NURTH	3154	3025	0	in	ی							
UNUSED	2413	2006	-27	d Samuel Control								
UNUSED	0636	1385	-29	C. Margarita	-							
										1		l
CLIENT NOTIFICATION/R									Field Data	a Required?	□Yes □N	10
Person Con	tacted:					Dat	e/Ti	me:				
Comments/Reso												
	17: 7	1 16	1.								-	

Project Manager Review: Date: U/4/2021 Fage 18 01 10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of the control of