

October 20, 2020
File No. 25220120.00

Mr. Jeff Ackerman
Wisconsin Department of Natural Resources
3911 Fish Hatchery Rd.
Fitchburg, WI 53711-5367

Subject: Vapor Intrusion Assessment
Weber's Dry Cleaner
711 South Church Street
Richland Center, WI
BRRTS No. 02-53-550524

Dear Mr. Ackerman:

SCS Engineers (SCS) is providing the following summary for a vapor intrusion assessment performed for the above-noted Weber's Dry Cleaner site (**Figure 1**). The work was performed for the Wisconsin Department of Natural Resources (WDNR) to evaluate for the presence of chlorinated volatile organic compounds (CVOCs) in indoor air and sub-slab vapor at the former dry cleaner building and other buildings in the vicinity of the former dry cleaner facility.

The assessment findings indicate CVOCs are present in the former dry cleaner building and two adjacent residences at concentrations in excess of WDNR vapor action levels. The presence of CVOCs may pose a health risk to occupants. We recommend the installation of vapor mitigation systems to address the potential health risks at buildings with action level exceedances.

METHODS

Access

The WDNR arranged access for vapor sampling at the 711 South Church Street property. SCS sent access agreements to owners of the following properties on June 3, 2020:

- 245 East Gage Street (residence)
- 248 East Gage Street (residence)
- 725 and 735 Sextonville Road (rental residences)
- 678 South Park Street (Lincoln Elementary School)

Access was approved for all properties except for 248 East Gage Street. A second access request was sent to the owner of 248 East Gage Street on July 7, 2020. The WDNR also contacted the owner by phone, but the owner would not approve access, so sampling could not be performed.



Sampling

SCS performed field sampling activities on September 17 and 18, 2020. Sample locations are shown on **Figure 1**. Photographs of the sampling work are included in **Attachment A**. Field forms are included in **Attachment B**.

Indoor and Outdoor Air Sampling

Indoor and outdoor air samples were collected from locations IA-1 through IA-5 and AR-1 using laboratory-supplied summa canisters equipped with 24-hour flow controllers. Each summa canister was placed approximately 3 to 5 feet above the ground, near the breathing zone.

Sub-Slab Vapor Sampling

Sub-slab vapor samples were collected by installing a stainless steel Vapor Pin® (vapor pin) through each building floor slab. A hand-held hammer drill was used to drill a hole through each slab. The vapor pin was then inserted into the hole with a silicone sleeve to form a seal between the vapor pin and the floor slab. Vapor samples were collected using SCS's sampling manifold, tubing, and fittings. SCS tested the vapor pin seals and sampling equipment prior to collection of each sample. No leaks were detected.

After leak checks and purging were completed, a sub-slab vapor sample was collected from each vapor pin using SCS's sampling manifold and a laboratory-supplied summa canister equipped with a 30-minute flow controller. A duplicate sub-slab vapor sample was collected from the 711 South Church Street building for quality control purposes. The vapor pins were left in place for additional sampling, if needed.

All samples were transported to Pace Analytical (Pace) under chain of custody for analysis via U.S. Environmental Protection Agency (USEPA) Method TO-15. The samples were analyzed for tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride.

FINDINGS

The laboratory report is included in **Attachment C**. Results and regulatory standards are summarized in **Tables 1** and **2**. Sampling results are also summarized below:

- PCE was detected in the 711 South Church Street indoor air sample at a concentration in excess of WDNR's indoor air vapor action level (VAL) for small commercial buildings.
- TCE and/or PCE were detected in the 711 South Church Street, 245 East Gage Street, and 725 Sextonville Road sub-slab samples at concentrations in excess of the WDNR's sub-slab vapor risk screening levels (VRSLs) for residential or small commercial buildings.
- CVOCs were not detected in the remaining samples at concentrations in excess of WDNR action levels.
- The reported PCE concentration for the SB-1 duplicate sub-slab sample was significantly higher than the concentration from the original SB-1 sample. The reason for this

discrepancy is not known, but may be due to the additional purging of the vapor pin needed to collect the duplicate sample. This additional purging may have drawn in sample from a zone of sub-slab material with higher vapor concentrations.

SUMMARY AND RECOMMENDATIONS

SCS completed sampling work to evaluate for the presence of CVOCs in the former Weber's Dry Cleaning building and other buildings in the vicinity of the former dry cleaner. CVOCs were detected in the former dry cleaner building and two neighboring residences at concentrations in excess of WDNR action levels. The findings indicate a potential indoor air health risk to occupants of these buildings.

Based on assessment findings, SCS recommends installation of vapor mitigation systems in the buildings at 711 South Church Street, 725 Sextonville Road, and 245 East Gage Street.

Please contact Robert Langdon at 608-216-7329 if you have any questions regarding this letter.

Sincerely,



Robert Langdon
Senior Project Manager
SCS Engineers



Mark R. Huber, PE
Project Director
SCS Engineers

REL/jsn_lmh/MRH

Attachments: Table 1 – Indoor and Outdoor Air Analytical Results Summary
Table 2 – Sub-Slab Vapor Analytical Results Summary
Figure 1 – Sample Location Map
Attachment A – Photos
Attachment B – Field Forms
Attachment C – Laboratory Report

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Tables

- 1 Indoor and Outdoor Air Analytical Results Summary
- 2 Sub-Slab Vapor Analytical Results Summary

Table 1. Indoor and Outdoor Air Analytical Results Summary
Weber's Dry Cleaners, Richland Center, WI / SCS Engineers Project #25220120.00

(Results are in $\mu\text{g}/\text{m}^3$)

Sample	Building Type	Date	Lab Notes	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
IA-1 711 S. Church	Commercial	9/18/2020	--	<u>399</u>	0.94	<0.24	<0.25	<0.15
AR-1 711 S. Church	Commercial	9/18/2020	--	7.3 C8	<0.26	<0.24	<0.24	<0.15
IA-2 725 Sextonville	Residential	9/18/2020	--	0.88 J	<0.27	<0.24	<0.26	<0.15
IA-3 735 Sextonville	Residential	9/18/2020	--	0.95 J	<0.26	<0.24	<0.25	<0.15
IA-4 245 E. Gage	Residential	9/18/2020	--	1.8 J	<0.26	<0.24	0.70 J	<0.15
IA-5 678 S. Park	School	9/18/2020	--	0.62 J	<0.26	<0.24	<0.25	<0.15
Indoor Air Vapor Action Level (Residential Building)				42	2.1	NE	NE	1.7
Indoor Air Vapor Action Level (Small Commercial Building)				180	8.8	NE	NE	28

Abbreviations:

$\mu\text{g}/\text{m}^3$ = micrograms/cubic meters

trans-1,2-DCE = trans-1,2-dichloroethylene

NE = No Standard Established

cis-1,2-DCE = cis-1,2-dichloroethylene

Notes:

1. Samples were collected in 6-liter summa canisters over a 24-hour period and analyzed using the USEPA TO-15 analytical method.
2. Vapor Action Levels are from Wisconsin Department of Natural Resources' WI Vapor Quick Look-Up Table, which is based on November 2017 USEPA Regional Screening Level Tables.
3. **Bold & underlined** values exceed Indoor Air Vapor Action Levels.

Lab Notes:

C8 = Results may be biased high due to carryover from previously analyzed sample.

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

Created by:	JSN _____	Date:	10/1/2020 _____
Last revision by:	REL _____	Date:	10/2/2020 _____
Checked by:	JSN _____	Date:	10/2/2020 _____
Proj Mgr QA/QC:	REL _____	Date:	10/2/2020 _____

I:\25220120.00\Data and Calculations\Tables\[Table 1_Indoor and Outdoor Air Analytical Results Summary.xlsx]Results

Table 2. Sub-Slab Vapor Analytical Results Summary
Weber's Dry Cleaners, Richland Center, WI / SCS Engineers Project #25220120.00
 (Results are in $\mu\text{g}/\text{m}^3$)

Sample	Building Type	Date	Lab Notes	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
SB-1 711 S. Church	Commercial	9/18/2020	--	<u>842,000</u>	<u>843</u>	<159	<166	<99.9
		9/18/2020 Dup	--	<u>1,280,000</u>	<2,010	<1,840	<1,920	<1,160
SB-2 725 Sextonville	Residential	9/18/2020	--	<u>26,600</u>	<8.9	<8.1	<8.5	<5.1
SB-3 735 Sextonville	Residential	9/18/2020	--	511	0.43 J	<0.24	<0.25	<0.15
SB-4 245 E. Gage	Residential	9/18/2020	--	<u>3,740</u>	0.36 J	<0.23	<0.24	<0.14
SB-5 678 S. Park	School	9/18/2020	--	10.0	<0.30	<0.27	<0.28	<0.17
Vapor Risk Screening Level (Residential Building)				1,400	70	NE	NE	57
Vapor Risk Screening Level (Small Commercial Building)				6,000	290	NE	NE	930

Abbreviations:

$\mu\text{g}/\text{m}^3$ = micrograms/cubic meters

trans-1,2-DCE = trans-1,2-dichloroethylene

cis-1,2-DCE = cis-1,2-dichloroethylene

-- = Not Applicable

NE = Standard Not Established

Notes:

1. Samples were collected in 6-liter summa canisters over a 30-minute period and analyzed using the USEPA TO-15 analytical method.
2. Vapor Risk Screening Levels are from Wisconsin Department of Natural Resources' WI Vapor Quick Look-Up Table, which is based on November 2017 USEPA Regional Screening Level Tables.
3. **Bold+underlined** values meet or exceed Vapor Risk Screening Levels.

Lab Notes:

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

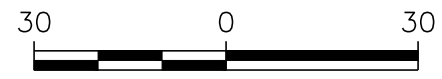
Created by:	JSN	Date:	10/1/2020
Last revision by:	REL	Date:	10/2/2020
Checked by:	JSN	Date:	10/2/2020
Proj Mgr QA/QC:	REL	Date:	10/2/2020

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Figure

1 Sample Location Map

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- LEGEND
- PROPERTY LINE
 - ▲ SUB-SLAB VAPOR TESTING LOCATION
 - INDOOR AMBIENT AIR TESTING LOCATION
 - OUTDOOR AMBIENT AIR TESTING LOCATION

- NOTES:
1. BACKGROUND AERIAL IMAGE FROM GOOGLE MAPS, IMAGE DATE UNKNOWN.
 2. PROPERTY LINES FROM RICHLAND COUNTY ARCGIS WEB APPBUILDER. LOCATIONS ARE APPROXIMATE.

CLIENT	PROJECT NO.	25220120.00	ENGINEER	FIGURE	1
	DRAWN:	09/30/2020	REL	SCS ENGINEERS	
SITE	REVISD:	10/09/2020	REL	2830 DAIRY DRIVE, MADISON, WI 53718-6751	
	APPROVED BY:		REL	PHONE: (608) 224-2830	
WEBER'S DRY CLEANERS 711 SOUTH CHURCH STREET RICHLAND CENTER, WISCONSIN		DRAWN BY:	KP	SAMPLE LOCATION MAP	

Attachment A

Photos

Weber's Dry Cleaners Vapor Assessment
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Photo 1: Indoor air sample IA-1 at 711 S. Church St. (9/17/20).



Photo 2: Outdoor ambient air sample location AR-1 at the southeast corner of 711 S. Church St. building, looking northwest (9/17/20).

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Photo 3: Basement access hatch in floor of back bedroom at 725 Sextonville Rd. (9/17/20).



Photo 4: Air ample IA-3 in progress in basement of 735 Sextonville Rd., looking southwest (9/17/20).

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Photo 5: Air ample IA-4 in progress in basement of 245 E. Gage Street, looking southeast (9/17/20).



Photo 6: Sub-slab sample SB-1 in progress at 711 S. Church St., adjacent to liquid-filled containment around dry cleaning machine (9/18/20).

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Photo 7: Sub-slab sample SB-2 in progress at 725 Sextonville Rd. basement, looking east (9/18/20).



Photo 8: Location of indoor air sample IA-2 in basement of 725 Sextonville Rd., looking north (9/18/20).

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Photo 9: Location of sub-slab sample SB-3 in basement of 735 Sextonville Rd., looking south (9/18/20).



Photo 10: Sub-slab sample SB-1 (duplicate) in process at 711 S. Church St. (9/18/20).

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Photo 11: Sub-slab sample SB-4 in process at 245 E Gage St. (9/18/20).



Photo 12: Sub-slab sample SB-5 in process at 678 S Park St. (9/18/20).

Attachment B

Field Forms

Vapor Assessment Sample Collection Log

Project: <u>28 Weber's</u>	Sample ID: <u>IA-1</u>	Type (Circle One)*: SB <u>AI</u> AR
Project #: <u>25220/20.00</u>	Sample Intake Height: <u>4.5'</u>	NA for SB
Location: <u>711 Church St</u>	Approx. Purge Volume:	NA for AI and AR
Sampler: <u>Eric Oelke</u>	Approx. Sampling Depth:	<u>NA</u> for AI and AR
Sub-Slab Sample Kit #:		<u>NA</u> for AI and AR
Sub-Slab Sample Manifold #:		<u>NA</u> for AI and AR
PID #: <u>ppb RAE</u>		

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
<u>9/17/20</u>	<u>8:46</u>	<u>26"</u>	<u>92 ppb</u>
<u>9/18/20</u>	<u>8:00</u>	<u>3"</u>	<u>95 ppb</u>

Summa Canister Information:

Canister Size:	1L	<u>6L</u>
Canister ID#	<u>3552</u>	
Flow Controller ID#	<u>0768</u>	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

ppb RAE outdoors 0 ppb 9/17 & 9/18

48°F 30.22 in Hg

Set can on work table in center of front room

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment Sample Collection Log

Project: <u>Weber's</u>	Sample ID: <u>SB-1</u>	Type (Circle One)*: <input checked="" type="radio"/> SB <input type="radio"/> AI <input type="radio"/> AR
Project #: <u>25220120</u>	Sample Intake Height:	<input checked="" type="radio"/> NA for SB
Location: <u>711 S Church</u>	Approx. Purge Volume: <u>3 min</u>	NA for AI and AR
Sampler: <u>Oelkers</u>	Approx. Sampling Depth: <u>5"</u>	NA for AI and AR
Sub-Slab Sample Kit #: <u>1</u>		NA for AI and AR
Sub-Slab Sample Manifold #: <u>1</u>		NA for AI and AR
PID #: <u>ppbRAE</u>		

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
<u>9/18/20</u>	<u>9:13</u>	<u>—</u>	<u>5960 ppm</u>
<u>9/18</u>	<u>9:16</u>	<u>28</u>	<u>104 ppm</u>
<u>9/18</u>	<u>10:13</u>	<u>10"</u>	<u>104 105 ppm</u>

Summa Canister Information:

Canister Size:	1L	<input checked="" type="radio"/> 6L
Canister ID#	<u>1468</u>	
Flow Controller ID#	<u>0909</u>	

Sub-Slab Tests Passed?

Water Dam:	<input checked="" type="radio"/> Yes	No
Shut-In: <u>98" WC</u>	<input checked="" type="radio"/> Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment Sample Collection Log

Project: <u>Webb's</u>	Sample ID: <u>SB-7</u> Duplicate type (Circle One)*: <u>SB</u> AI AR
Project #: <u>25220120</u>	Sample Intake Height: <u>NA</u> for SB
Location:	Approx. Purge Volume: <u>NA</u> for AI and AR
Sampler:	Approx. Sampling Depth: <u>5'</u> <u>NA</u> for AI and AR
Sub-Slab Sample Kit #: <u>1</u>	<u>NA</u> for AI and AR
Sub-Slab Sample Manifold #: <u>1</u>	<u>NA</u> for AI and AR
PID #: <u>ppb RAE</u>	

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
<u>9/18</u>	<u>12:21</u>		<u>55 ppm</u>
<u>9/18</u>	<u>12:24</u>	<u>30</u>	<u>99 ppm</u>
<u>9/18</u>	<u>12:59</u>	<u>5</u>	<u>9100 ppm</u>

Summa Canister Information:

Canister Size:	1L	<u>(6L)</u>
Canister ID#	<u>0977</u>	
Flow Controller ID#	<u>1187</u>	

Sub-Slab Tests Passed?

Water Dam:	<u>Yes</u>	No
Shut-In:	<u>Yes</u>	No

General Notes/Observations:

185 ppb ambient inside

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment Sample Collection Log

Project: <u>Weber</u>	Sample ID: <u>AR-1</u>	Type (Circle One)*: SB AI <u>AR</u>
Project #: <u>25220120</u>	Sample Intake Height: <u>4'</u>	NA for SB
Location: <u>711 S. Church</u>	Approx. Purge Volume:	<u>NA</u> for AI and AR
Sampler: <u>Oelkers</u>	Approx. Sampling Depth:	<u>NA</u> for AI and AR
Sub-Slab Sample Kit #:		<u>NA</u> for AI and AR
Sub-Slab Sample Manifold #:		<u>NA</u> for AI and AR
PID #: <u>ppb RAE</u>		

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
<u>9/17/2020</u>	<u>9:19</u>	<u>29</u>	<u>1 ppb</u>
<u>9/18/20</u>	<u>8:07</u>	<u>3.5"</u>	<u>0 ppb</u>

Summa Canister Information:

Canister Size:	1L	<u>6L</u>
Canister ID#	<u>1475</u>	
Flow Controller ID#	<u>1395</u>	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

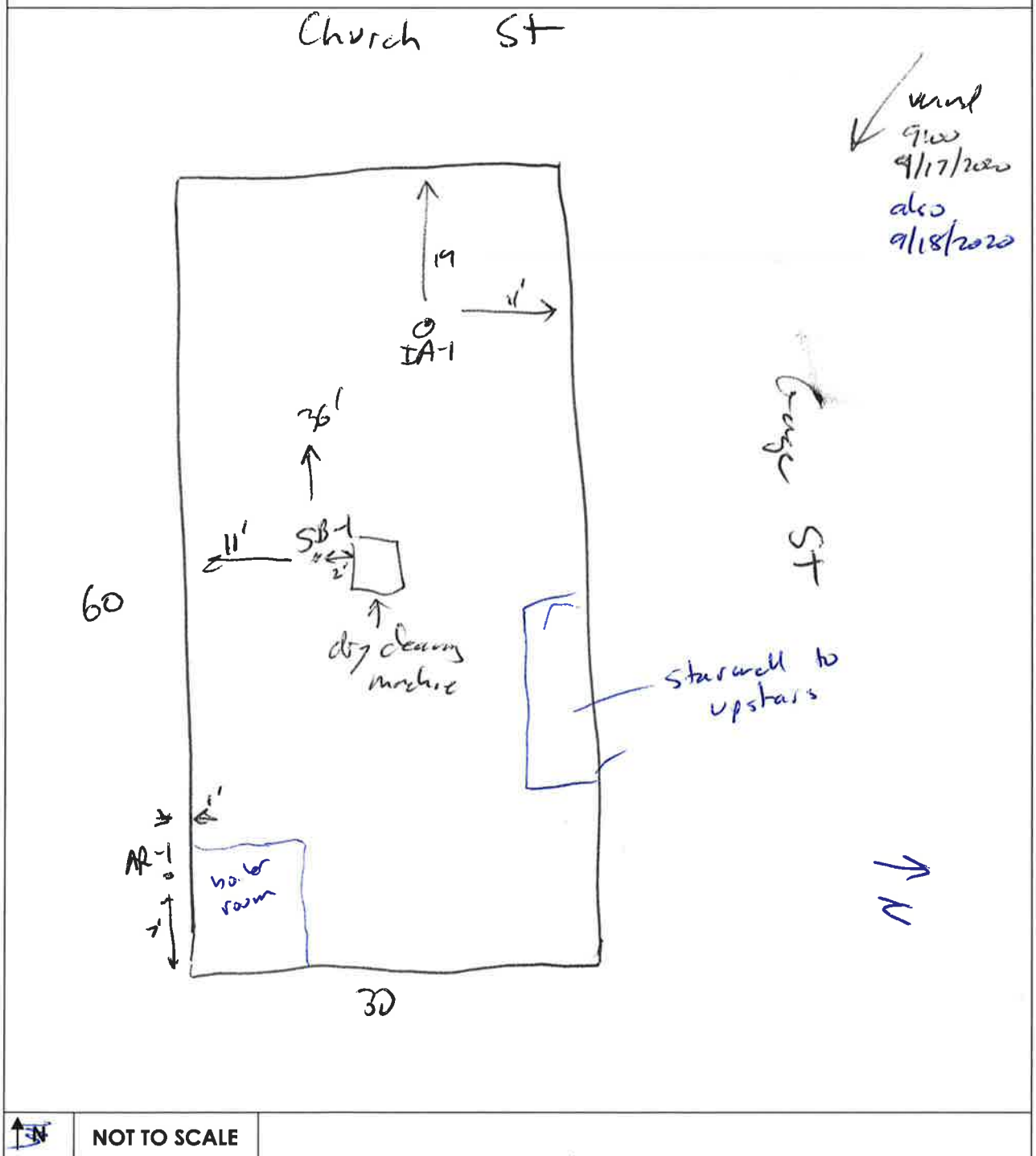
Project No.: 25220120

Sample Location/ID: IA-1, SB-1, AR-1

Date: 9/17/2020

711 S. Church St

Sample Locations Sketch:



Vapor Assessment Sample Collection Log

Project: <u>21 Wobers</u>	Sample ID: <u>DA-2</u>	Type (Circle One)*: SB <input type="radio"/> AI <input checked="" type="radio"/> AR
Project #: <u>25220120</u>	Sample Intake Height:	NA for SB
Location: <u>725 Sutherland hsmnt.</u>	Approx. Purge Volume:	<input checked="" type="radio"/> NA for AI and AR
Sampler: <u>Oelkes</u>	Approx. Sampling Depth:	<input checked="" type="radio"/> NA for AI and AR
Sub-Slab Sample Kit #:		<input checked="" type="radio"/> NA for AI and AR
Sub-Slab Sample Manifold #:		<input checked="" type="radio"/> NA for AI and AR
PID #: <u>ppb RAE</u>		

Instrument Readings:

Date	Time	Canister Vacuum (¹ / ₂ of Hg)	PID Reading (ppm/ppb)
<u>9/17/2020</u>	<u>9:36</u>	<u>30</u>	<u>307 ppb</u>
<u>9/18/20</u>	<u>8:38</u>	<u>4'</u>	<u>255 ppb</u>

Summa Canister Information:

Canister Size:	1L	<input checked="" type="radio"/> 6L
Canister ID#	<u>3642</u>	
Flow Controller ID#	<u>1501</u>	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

708 ppb ambient air upstairs by front door

377 ppb in back bedroom

Abbreviations:

NA = Not Applicable SB = Sub-Slab
 AI = Indoor Air AR = Outdoor Air

Vapor Assessment Sample Collection Log

Project: <i>Woborn's</i>	Sample ID: <i>SB-2</i>	Type (Circle One)* <input checked="" type="radio"/> SB <input type="radio"/> AI <input type="radio"/> AR
Project #: <i>25220120</i>	Sample Intake Height: <i>5'</i>	<input checked="" type="radio"/> NA for SB
Location: <i>725 Seaboard</i>	Approx. Purge Volume: <i>3 min</i>	NA for AI and AR
Sampler:	Approx. Sampling Depth: <i>5'</i>	NA for AI and AR
Sub-Slab Sample Kit #: <i>2</i>		NA for AI and AR
Sub-Slab Sample Manifold #: <i>2</i>		NA for AI and AR
PID #: <i>ppb RAL</i>		

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
<i>9/18</i>	<i>9:50</i>		<i>1629</i>
<i>9/18</i>	<i>9:53</i>	<i>29</i>	<i>3366</i>
<i>9/18</i>	<i>10:44</i>	<i>6</i>	<i>2370</i>

Summa Canister Information:

Canister Size:	1L	<input checked="" type="radio"/> 6L
Canister ID#	<i>2384</i>	
Flow Controller ID#	<i>0706</i>	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Severant is very humid

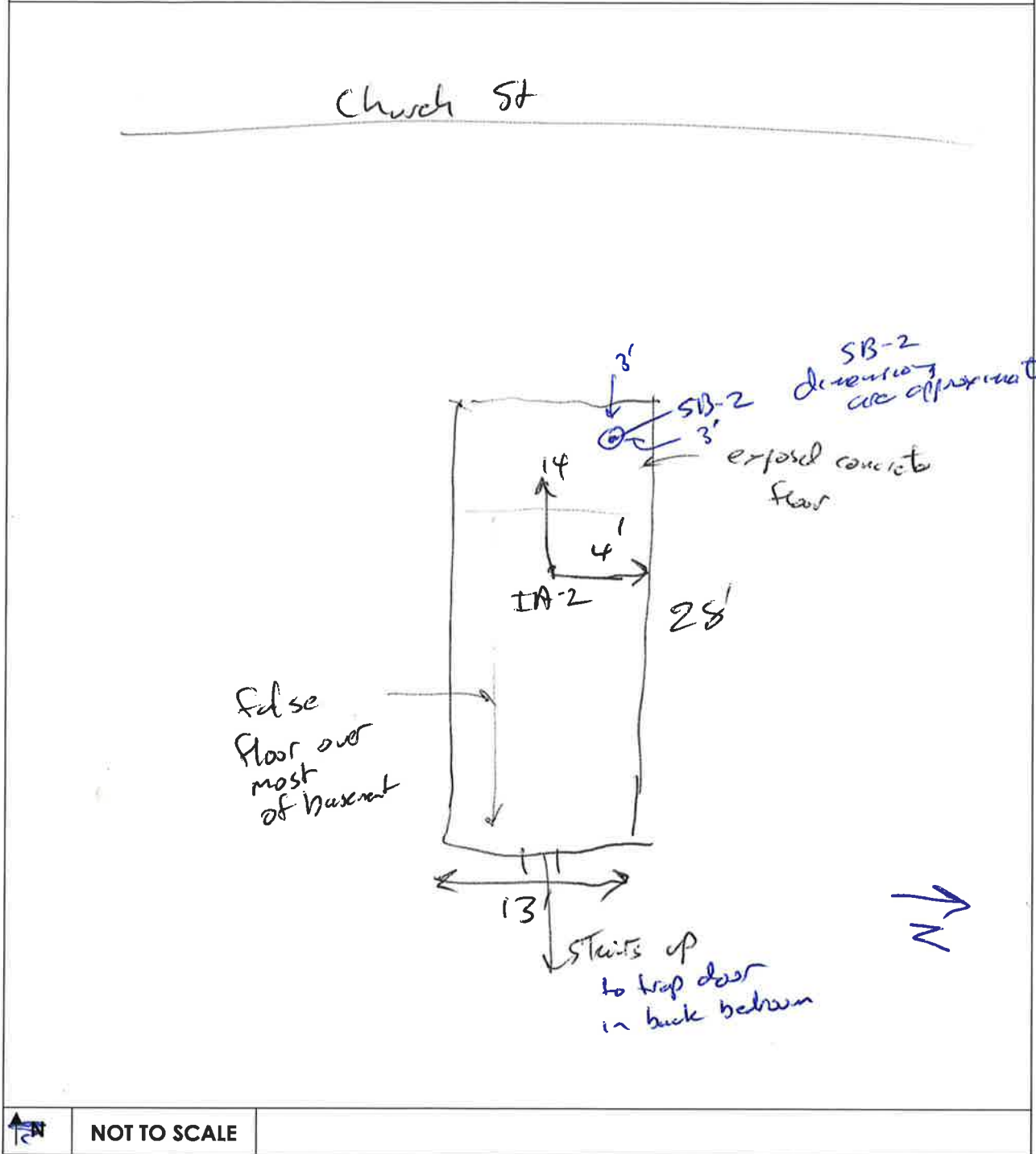
ambient PID = 33 ppm

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Project No.: 25270120 Sample Location/ID: IA-2 725 Sxtorville
Date: 9/17/2020

Sample Locations Sketch:



Vapor Assessment Sample Collection Log

Project: <i>Weber's</i>	Sample ID: <i>IA3</i>	Type (Circle One)*: SB <input type="radio"/> <input checked="" type="radio"/> AI <input type="radio"/> AR
Project #: <i>25220120</i>	Sample Intake Height:	NA for SB
Location: <i>735 Sycamore Ave bsmt</i>	Approx. Purge Volume:	<input checked="" type="radio"/> NA for AI and AR
Sampler: <i>Oelkers</i>	Approx. Sampling Depth:	<input checked="" type="radio"/> NA for AI and AR
Sub-Slab Sample Kit #:		<input checked="" type="radio"/> NA for AI and AR
Sub-Slab Sample Manifold #:		<input checked="" type="radio"/> NA for AI and AR
PID #: <i>ppb RAE</i>		

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
<i>9/17/20</i>	<i>9:52</i>	<i>30</i>	<i>36 ppb</i>
<i>9/18/20</i>	<i>8:47</i>	<i>5</i>	<i>0 - 25</i>

Summa Canister Information:

Canister Size:	1L	<input checked="" type="radio"/> 6L
Canister ID#	<i>3446</i>	
Flow Controller ID#	<i>1879</i>	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment Sample Collection Log

Project: <u>Webers</u>	Sample ID: <u>SB-3</u>	Type (Circle One)*: <input checked="" type="radio"/> SB <input type="radio"/> AI <input type="radio"/> AR
Project #: <u>25220 120</u>	Sample Intake Height:	<input checked="" type="radio"/> NA for SB
Location: <u>735 Sextonville</u>	Approx. Purge Volume: <u>3 min</u>	NA for AI and AR
Sampler: <u>Oelkes</u>	Approx. Sampling Depth: <u>4"</u>	NA for AI and AR
Sub-Slab Sample Kit #: <u>1</u>		NA for AI and AR
Sub-Slab Sample Manifold #: <u>1</u>		NA for AI and AR
PID #: <u>ppbRAE²</u>		

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
<u>9/18</u>	<u>11:21</u>		<u>5 ppm</u>
<u>9/18</u>	<u>11:24</u>	<u>30"</u>	<u>651 ppb</u>
<u>9/18</u>	<u>12:01</u>	<u>5"</u>	<u>292 ppb ↓</u>

Summa Canister Information:

Canister Size:	1L	<input checked="" type="radio"/> 6L
Canister ID#	<u>2106</u>	
Flow Controller ID#	<u>1165</u>	

Sub-Slab Tests Passed?

Water Dam:	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Shut-In: <u>91" WC</u>	<input checked="" type="radio"/> Yes	<input type="radio"/> No

General Notes/Observations:

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

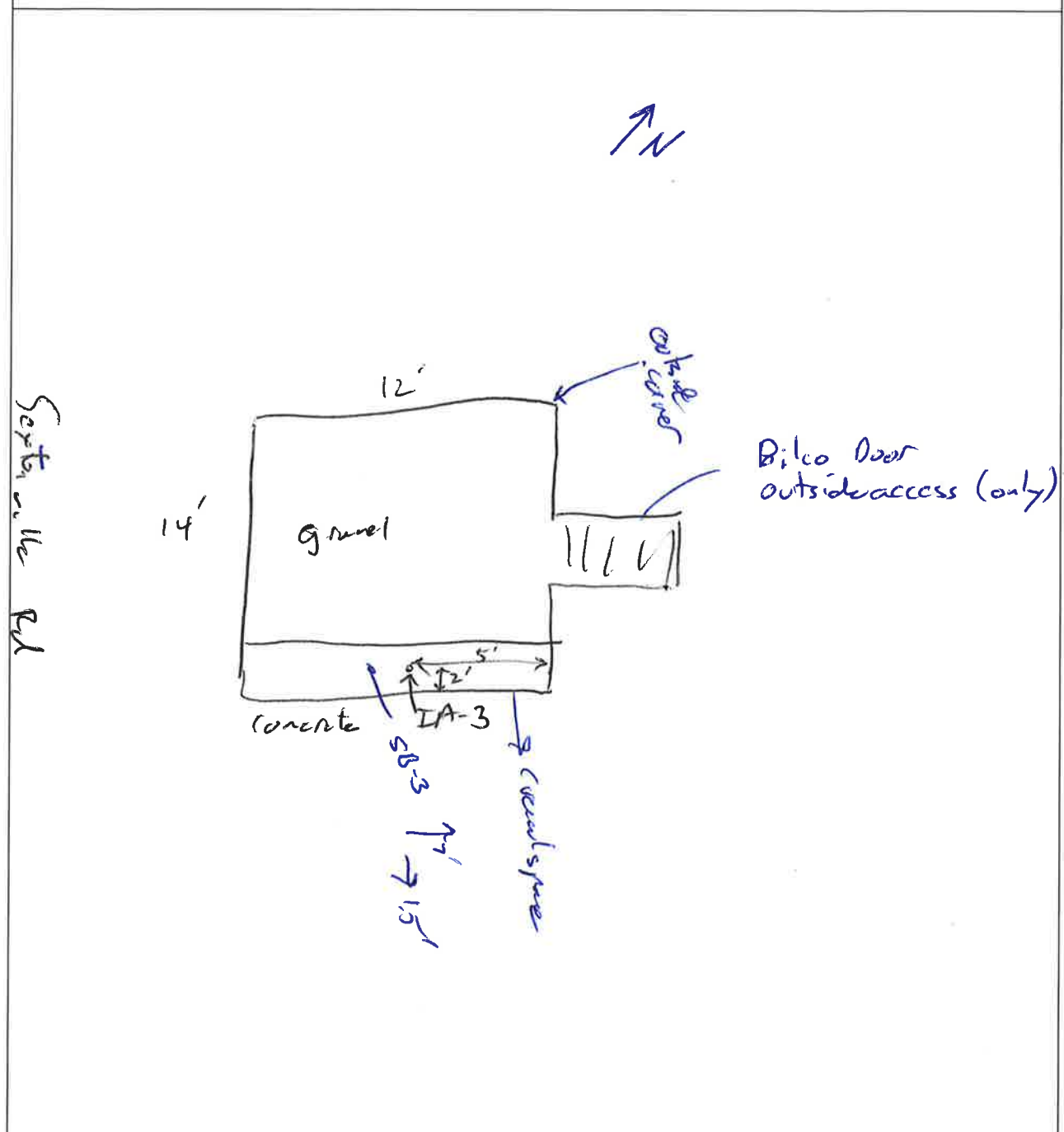
Project No.: 25220120

Sample Location/ID: 735 Sextonville

Date: 9/17/20

IA-3/SB-3

Sample Locations Sketch:



↑ N NOT TO SCALE

Vapor Assessment Sample Collection Log

Project: <i>Weherts</i>	Sample ID: <i>IA-4</i>	Type (Circle One)*: <input type="radio"/> SB <input type="radio"/> AI <input type="radio"/> AR
Project #: <i>25220120</i>	Sample Intake Height:	NA for SB
Location: <i>245 E Geiger</i>	Approx. Purge Volume:	NA for AI and AR
Sampler: <i>Oelker</i>	Approx. Sampling Depth:	<input checked="" type="radio"/> NA for AI and AR
Sub-Slab Sample Kit #:		<input checked="" type="radio"/> NA for AI and AR
Sub-Slab Sample Manifold #:		<input checked="" type="radio"/> NA for AI and AR
PID #: <i>ppb RAE</i>		

Instrument Readings:

Date	Time	Canister Vacuum (^o of Hg)	PID Reading (ppm/ppb)
<i>9/17/20</i>	<i>10:11</i>	<i>26"</i>	<i>1084</i> <i>1360 ppb</i>
<i>9/18/20</i>	<i>9:59</i>	<i>5"</i>	<i>500 ppb</i>

Summa Canister Information:

Canister Size:	1L	<input checked="" type="radio"/> 6L
Canister ID#	<i>3038</i>	
Flow Controller ID#	<i>2029</i>	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment Sample Collection Log

Project: <u>Weber's</u>	Sample ID: <u>SB-4</u>	Type (Circle One)*: <input checked="" type="radio"/> SB <input type="radio"/> AI <input type="radio"/> AR
Project #: <u>25220120</u>	Sample Intake Height:	<input checked="" type="radio"/> NA for SB
Location: <u>245 Gage</u>	Approx. Purge Volume:	NA for AI and AR
Sampler: <u>Oelker</u>	Approx. Sampling Depth:	NA for AI and AR
Sub-Slab Sample Kit #: <u>2</u>		NA for AI and AR
Sub-Slab Sample Manifold #: <u>2</u>		NA for AI and AR
PID #: <u>ppbRAE</u>		

Instrument Readings:

Date	Time	Canister Vacuum (¹ / ₂ of Hg)	PID Reading (ppm/ppb)
<u>9/18</u>	<u>11:05</u>		<u>1,908 ppb</u>
<u>9/18</u>	<u>11:08</u>	<u>30"</u>	<u>980 ppb</u>
<u>9/18</u>	<u>12:28</u>	<u>8"</u>	<u>962 ppb</u>

Summa Canister Information:

Canister Size:	1L	<input checked="" type="radio"/> 6L
Canister ID#	<u>3654</u>	
Flow Controller ID#	<u>1610</u>	

Sub-Slab Tests Passed?

Water Dam:	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Shut-In:	<input type="radio"/> Yes	<input type="radio"/> No

General Notes/Observations:

can ^{valve} not actually closed until 12:38

PID 3" Hg vacuum remaining while open

97" → 78" then held steady w/c

needed, holding @ 97" w/c

can was outside for 20 min

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

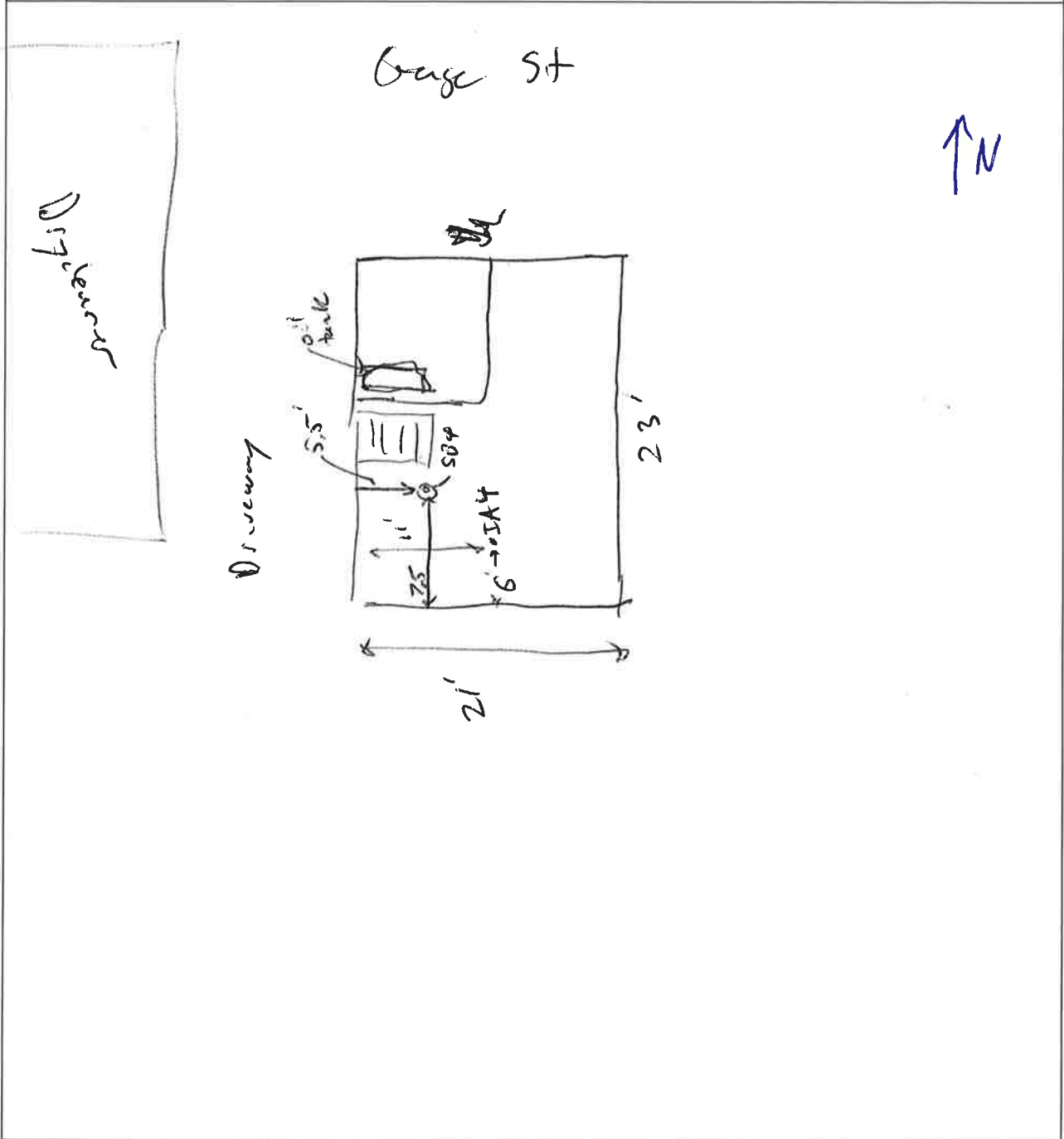
Project No.: 25220 120

Sample Location/ID: IA-4 275 E Corp

Date: 9/17/20

SB-4

Sample Locations Sketch:



↑ N NOT TO SCALE

Vapor Assessment Sample Collection Log

Project: <u>Webster</u>	Sample ID: <u>IA-5</u>	Type (Circle One)*: SB <input type="radio"/> AI <input checked="" type="radio"/> AR
Project #: <u>25220120</u>	Sample Intake Height:	NA for SB
Location: <u>678 S. Park</u>	Approx. Purge Volume:	<input checked="" type="radio"/> NA for AI and AR
Sampler: <u>Oelkers</u>	Approx. Sampling Depth:	<input checked="" type="radio"/> NA for AI and AR
Sub-Slab Sample Kit #:		<input checked="" type="radio"/> NA for AI and AR
Sub-Slab Sample Manifold #:		<input checked="" type="radio"/> NA for AI and AR
PID #: <u>ppb RAE</u>		

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
<u>9/17/20</u>	<u>10:51</u>	<u>30"</u>	<u>5-13 ppb</u>
<u>9/18/20</u>	<u>10:37</u>	<u>4"</u>	<u>1 ppb</u>

Summa Canister Information:

Canister Size:	1L	<input checked="" type="radio"/> 6L
Canister ID#	<u>2328</u>	
Flow Controller ID#	<u>2032</u>	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Brian and David met me on site @ 2:10:47 on 9/17

Kevin P. is the custodian

Mulholland

Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Vapor Assessment Sample Collection Log

Project: <i>Webb's</i>	Sample ID: <i>SB-5</i>	Type (Circle One)*: <input checked="" type="radio"/> SB <input type="radio"/> AI <input type="radio"/> AR
Project #: <i>25220120</i>	Sample Intake Height:	<input checked="" type="radio"/> NA for SB
Location: <i>Lincoln School</i>	Approx. Purge Volume: <i>3 min</i>	NA for AI and AR
Sampler: <i>Oelkers</i>	Approx. Sampling Depth: <i>6'</i>	NA for AI and AR
Sub-Slab Sample Kit #: <i>2</i>		NA for AI and AR
Sub-Slab Sample Manifold #: <i>2</i>		NA for AI and AR
PID #: <i>ppb RAE</i>		

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
<i>9/18/20</i>	<i>13:36</i>		<i>240</i>
<i>9/18/20</i>	<i>13:39</i>	<i>30+</i>	<i>585</i>
<i>9/18/20</i>	<i>14:11</i>	<i>7</i>	<i>160+230↑</i>

Summa Canister Information:

Canister Size:	1L	<input checked="" type="radio"/> 6L
Canister ID#	<i>3501</i>	
Flow Controller ID#	<i>1192</i>	

Sub-Slab Tests Passed?

Water Dam:	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Shut-In: <i>98"wc</i>	<input checked="" type="radio"/> Yes	<input type="radio"/> No

General Notes/Observations:

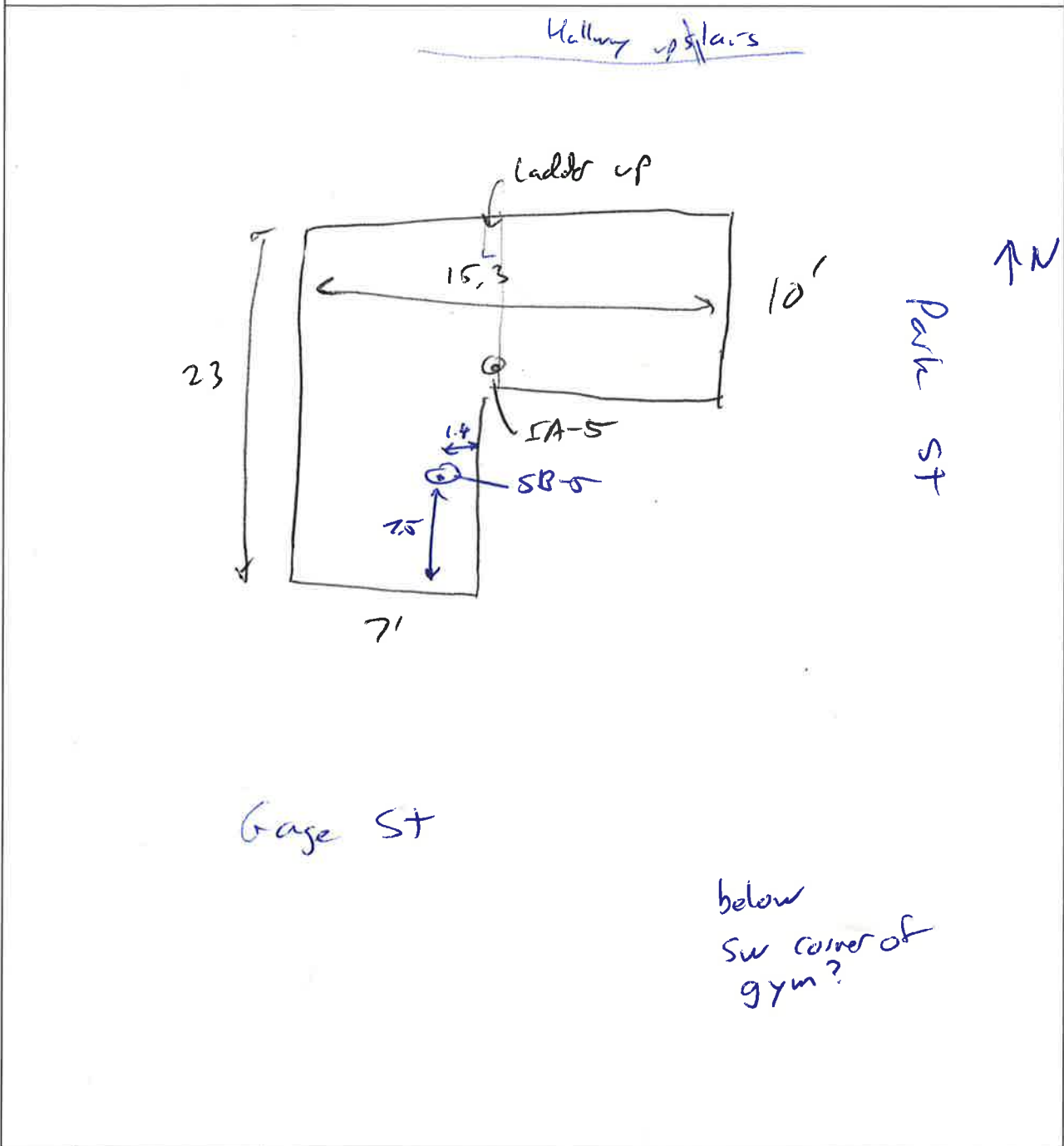
Abbreviations:

NA = Not Applicable SB = Sub-Slab
AI = Indoor Air AR = Outdoor Air

Project No.: 25720120
Date: 9/17/20

Sample Location/ID: IA-5 School
SB-5

Sample Locations Sketch:



↑ N NOT TO SCALE

Attachment C
Laboratory Report

October 01, 2020

Rob Langdon
SCS Engineers
2830 Dairy Dr.
Madison, WI 53718

RE: Project: 25220170 Webers Dry Cleaners-Revised Report
Pace Project No.: 10532807

Dear Rob Langdon:

Enclosed are the analytical results for sample(s) received by the laboratory on September 22, 2020. 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.

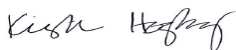
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

This report was revised October 1, 2020, to change sample IDs.

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

Sincerely,



Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 25220170 Webers Dry Cleaners-Revised Report

Pace Project No.: 10532807

Pace Analytical Services - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01

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+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

Massachusetts DWP Certification #: via MN 027-053-137

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 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

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 25220170 Webers Dry Cleaners-Revised Report
Pace Project No.: 10532807

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10532807001	IA-1 711 S. Church St	Air	09/18/20 08:00	09/22/20 12:00
10532807002	AR-1 711 S. Church St	Air	09/18/20 08:07	09/22/20 12:00
10532807003	IA-2 725 Sextonville	Air	09/18/20 08:38	09/22/20 12:00
10532807004	IA-3 735 Sextonville	Air	09/18/20 08:47	09/22/20 12:00
10532807005	IA-4 245 E. Gage	Air	09/18/20 09:59	09/22/20 12:00
10532807006	IA-5 678 S. Park	Air	09/18/20 10:37	09/22/20 12:00
10532807007	SB-1 711 S. Church	Air	09/18/20 10:13	09/22/20 12:00
10532807008	SB-2 725 Sextonville	Air	09/18/20 10:44	09/22/20 12:00
10532807009	SB-3 735 Sextonville	Air	09/18/20 12:01	09/22/20 12:00
10532807010	SB-4 245 E. Gage	Air	09/18/20 12:38	09/22/20 12:00
10532807011	SB-1 711 S. Church Duplicate	Air	09/18/20 12:59	09/22/20 12:00
10532807012	SB-5 678 S. Park	Air	09/18/20 14:11	09/22/20 12:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 25220170 Webers Dry Cleaners-Revised Report

Pace Project No.: 10532807

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10532807001	IA-1 711 S. Church St	TO-15	MLS	5	PASI-M
10532807002	AR-1 711 S. Church St	TO-15	MLS	5	PASI-M
10532807003	IA-2 725 Sextonville	TO-15	MLS	5	PASI-M
10532807004	IA-3 735 Sextonville	TO-15	MLS	5	PASI-M
10532807005	IA-4 245 E. Gage	TO-15	MLS	5	PASI-M
10532807006	IA-5 678 S. Park	TO-15	MLS	5	PASI-M
10532807007	SB-1 711 S. Church	TO-15	MLS	5	PASI-M
10532807008	SB-2 725 Sextonville	TO-15	MLS	5	PASI-M
10532807009	SB-3 735 Sextonville	TO-15	MLS	5	PASI-M
10532807010	SB-4 245 E. Gage	TO-15	MLS	5	PASI-M
10532807011	SB-1 711 S. Church Duplicate	TO-15	MLS	5	PASI-M
10532807012	SB-5 678 S. Park	TO-15	MLS	5	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 25220170 Webers Dry Cleaners-Revised Report

Pace Project No.: 10532807

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10532807001	IA-1 711 S. Church St					
TO-15	Tetrachloroethene	399	ug/m3	5.1	09/24/20 11:21	
TO-15	Trichloroethene	0.94	ug/m3	0.81	09/23/20 18:38	
10532807002	AR-1 711 S. Church St					
TO-15	Tetrachloroethene	7.3	ug/m3	1.0	09/24/20 09:34	C8
10532807003	IA-2 725 Sextonville					
TO-15	Tetrachloroethene	0.88J	ug/m3	1.0	09/24/20 10:02	
10532807004	IA-3 735 Sextonville					
TO-15	Tetrachloroethene	0.95J	ug/m3	1.0	09/23/20 19:06	
10532807005	IA-4 245 E. Gage					
TO-15	trans-1,2-Dichloroethene	0.70J	ug/m3	1.2	09/24/20 14:47	
TO-15	Tetrachloroethene	1.8J	ug/m3	2.1	09/24/20 14:47	
10532807006	IA-5 678 S. Park					
TO-15	Tetrachloroethene	0.62J	ug/m3	1.0	09/23/20 17:41	
10532807007	SB-1 711 S. Church					
TO-15	Tetrachloroethene	842000	ug/m3	10900	09/24/20 12:40	
TO-15	Trichloroethene	843	ug/m3	540	09/23/20 21:52	
10532807008	SB-2 725 Sextonville					
TO-15	Tetrachloroethene	26600	ug/m3	278	09/24/20 12:14	
10532807009	SB-3 735 Sextonville					
TO-15	Tetrachloroethene	511	ug/m3	10.3	09/24/20 11:48	
TO-15	Trichloroethene	0.43J	ug/m3	0.81	09/23/20 21:00	
10532807010	SB-4 245 E. Gage					
TO-15	Tetrachloroethene	3740	ug/m3	117	09/24/20 13:06	
TO-15	Trichloroethene	0.36J	ug/m3	0.77	09/23/20 22:47	
10532807011	SB-1 711 S. Church Duplicate					
TO-15	Tetrachloroethene	1280000	ug/m3	15800	09/24/20 15:17	
10532807012	SB-5 678 S. Park					
TO-15	Tetrachloroethene	10.0	ug/m3	2.3	09/24/20 14:11	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25220170 Webers Dry Cleaners-Revised Report
Pace Project No.: 10532807

Sample: IA-1 711 S. Church St **Lab ID: 10532807001** Collected: 09/18/20 08:00 Received: 09/22/20 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.49		09/23/20 18:38	156-59-2	
trans-1,2-Dichloroethene	<0.25	ug/m3	1.2	0.25	1.49		09/23/20 18:38	156-60-5	
Tetrachloroethene	399	ug/m3	5.1	2.1	7.45		09/24/20 11:21	127-18-4	
Trichloroethene	0.94	ug/m3	0.81	0.26	1.49		09/23/20 18:38	79-01-6	
Vinyl chloride	<0.15	ug/m3	0.39	0.15	1.49		09/23/20 18:38	75-01-4	

Sample: AR-1 711 S. Church St **Lab ID: 10532807002** Collected: 09/18/20 08:07 Received: 09/22/20 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.46		09/23/20 20:03	156-59-2	
trans-1,2-Dichloroethene	<0.25	ug/m3	1.2	0.25	1.46		09/23/20 20:03	156-60-5	
Tetrachloroethene	7.3	ug/m3	1.0	0.42	1.46		09/24/20 09:34	127-18-4	C8
Trichloroethene	<0.26	ug/m3	0.80	0.26	1.46		09/23/20 20:03	79-01-6	
Vinyl chloride	<0.15	ug/m3	0.38	0.15	1.46		09/23/20 20:03	75-01-4	

Sample: IA-2 725 Sextonville **Lab ID: 10532807003** Collected: 09/18/20 08:38 Received: 09/22/20 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.52		09/23/20 17:13	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/m3	1.2	0.26	1.52		09/23/20 17:13	156-60-5	
Tetrachloroethene	0.88J	ug/m3	1.0	0.43	1.52		09/24/20 10:02	127-18-4	
Trichloroethene	<0.27	ug/m3	0.83	0.27	1.52		09/23/20 17:13	79-01-6	
Vinyl chloride	<0.15	ug/m3	0.40	0.15	1.52		09/23/20 17:13	75-01-4	

Sample: IA-3 735 Sextonville **Lab ID: 10532807004** Collected: 09/18/20 08:47 Received: 09/22/20 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.49		09/23/20 19:06	156-59-2	
trans-1,2-Dichloroethene	<0.25	ug/m3	1.2	0.25	1.49		09/23/20 19:06	156-60-5	
Tetrachloroethene	0.95J	ug/m3	1.0	0.43	1.49		09/23/20 19:06	127-18-4	
Trichloroethene	<0.26	ug/m3	0.81	0.26	1.49		09/23/20 19:06	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25220170 Webers Dry Cleaners-Revised Report

Pace Project No.: 10532807

Sample: IA-3 735 Sextonville									
		Lab ID: 10532807004	Collected: 09/18/20 08:47	Received: 09/22/20 12:00	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Vinyl chloride	<0.15	ug/m3	0.39	0.15	1.49		09/23/20 19:06	75-01-4	

Sample: IA-4 245 E. Gage									
		Lab ID: 10532807005	Collected: 09/18/20 09:59	Received: 09/22/20 12:00	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.49		09/24/20 14:47	156-59-2	
trans-1,2-Dichloroethene	0.70J	ug/m3	1.2	0.25	1.49		09/24/20 14:47	156-60-5	
Tetrachloroethene	1.8J	ug/m3	2.1	0.43	1.49		09/24/20 14:47	127-18-4	
Trichloroethene	<0.26	ug/m3	0.81	0.26	1.49		09/24/20 14:47	79-01-6	
Vinyl chloride	<0.15	ug/m3	0.77	0.15	1.49		09/24/20 14:47	75-01-4	

Sample: IA-5 678 S. Park									
		Lab ID: 10532807006	Collected: 09/18/20 10:37	Received: 09/22/20 12:00	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.49		09/23/20 17:41	156-59-2	
trans-1,2-Dichloroethene	<0.25	ug/m3	1.2	0.25	1.49		09/23/20 17:41	156-60-5	
Tetrachloroethene	0.62J	ug/m3	1.0	0.43	1.49		09/23/20 17:41	127-18-4	
Trichloroethene	<0.26	ug/m3	0.81	0.26	1.49		09/23/20 17:41	79-01-6	
Vinyl chloride	<0.15	ug/m3	0.39	0.15	1.49		09/23/20 17:41	75-01-4	

Sample: SB-1 711 S. Church									
		Lab ID: 10532807007	Collected: 09/18/20 10:13	Received: 09/22/20 12:00	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<159	ug/m3	797	159	988.8		09/23/20 21:52	156-59-2	
trans-1,2-Dichloroethene	<166	ug/m3	797	166	988.8		09/23/20 21:52	156-60-5	
Tetrachloroethene	842000	ug/m3	10900	4520	15820		09/24/20 12:40	127-18-4	
Trichloroethene	843	ug/m3	540	174	988.8		09/23/20 21:52	79-01-6	
Vinyl chloride	<99.9	ug/m3	257	99.9	988.8		09/23/20 21:52	75-01-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25220170 Webers Dry Cleaners-Revised Report

Pace Project No.: 10532807

Sample: SB-2 725 Sextonville **Lab ID: 10532807008** Collected: 09/18/20 10:44 Received: 09/22/20 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<8.1	ug/m3	40.6	8.1	50.4		09/23/20 21:26	156-59-2	
trans-1,2-Dichloroethene	<8.5	ug/m3	40.6	8.5	50.4		09/23/20 21:26	156-60-5	
Tetrachloroethene	26600	ug/m3	278	115	403.2		09/24/20 12:14	127-18-4	
Trichloroethene	<8.9	ug/m3	27.5	8.9	50.4		09/23/20 21:26	79-01-6	
Vinyl chloride	<5.1	ug/m3	13.1	5.1	50.4		09/23/20 21:26	75-01-4	

Sample: SB-3 735 Sextonville **Lab ID: 10532807009** Collected: 09/18/20 12:01 Received: 09/22/20 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.49		09/23/20 21:00	156-59-2	
trans-1,2-Dichloroethene	<0.25	ug/m3	1.2	0.25	1.49		09/23/20 21:00	156-60-5	
Tetrachloroethene	511	ug/m3	10.3	4.3	14.9		09/24/20 11:48	127-18-4	
Trichloroethene	0.43J	ug/m3	0.81	0.26	1.49		09/23/20 21:00	79-01-6	
Vinyl chloride	<0.15	ug/m3	0.39	0.15	1.49		09/23/20 21:00	75-01-4	

Sample: SB-4 245 E. Gage **Lab ID: 10532807010** Collected: 09/18/20 12:38 Received: 09/22/20 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.23	ug/m3	1.1	0.23	1.41		09/23/20 22:47	156-59-2	
trans-1,2-Dichloroethene	<0.24	ug/m3	1.1	0.24	1.41		09/23/20 22:47	156-60-5	
Tetrachloroethene	3740	ug/m3	117	48.4	169.2		09/24/20 13:06	127-18-4	
Trichloroethene	0.36J	ug/m3	0.77	0.25	1.41		09/23/20 22:47	79-01-6	
Vinyl chloride	<0.14	ug/m3	0.37	0.14	1.41		09/23/20 22:47	75-01-4	

Sample: SB-1 711 S. Church Duplicate **Lab ID: 10532807011** Collected: 09/18/20 12:59 Received: 09/22/20 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<1840	ug/m3	9220	1840	11440		09/24/20 15:17	156-59-2	
trans-1,2-Dichloroethene	<1920	ug/m3	9220	1920	11440		09/24/20 15:17	156-60-5	
Tetrachloroethene	1280000	ug/m3	15800	3270	11440		09/24/20 15:17	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25220170 Webers Dry Cleaners-Revised Report

Pace Project No.: 10532807

Sample: SB-1 711 S. Church Duplicate **Lab ID: 10532807011** Collected: 09/18/20 12:59 Received: 09/22/20 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15 Pace Analytical Services - Minneapolis							
Trichloroethene	<2010	ug/m3	6250	2010	11440		09/24/20 15:17	79-01-6	
Vinyl chloride	<1160	ug/m3	5950	1160	11440		09/24/20 15:17	75-01-4	

Sample: SB-5 678 S. Park **Lab ID: 10532807012** Collected: 09/18/20 14:11 Received: 09/22/20 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15 Pace Analytical Services - Minneapolis							
cis-1,2-Dichloroethene	<0.27	ug/m3	1.4	0.27	1.68		09/24/20 14:11	156-59-2	
trans-1,2-Dichloroethene	<0.28	ug/m3	1.4	0.28	1.68		09/24/20 14:11	156-60-5	
Tetrachloroethene	10.0	ug/m3	2.3	0.48	1.68		09/24/20 14:11	127-18-4	
Trichloroethene	<0.30	ug/m3	0.92	0.30	1.68		09/24/20 14:11	79-01-6	
Vinyl chloride	<0.17	ug/m3	0.87	0.17	1.68		09/24/20 14:11	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25220170 Webers Dry Cleaners-Revised Report
Pace Project No.: 10532807

QC Batch:	700105	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR Low Level
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10532807001, 10532807002, 10532807003, 10532807004, 10532807006, 10532807007, 10532807008, 10532807009, 10532807010

METHOD BLANK: 3739753 Matrix: Air
Associated Lab Samples: 10532807001, 10532807002, 10532807003, 10532807004, 10532807006, 10532807007, 10532807008, 10532807009, 10532807010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.16	0.81	09/23/20 11:41	
Tetrachloroethene	ug/m3	<0.29	0.69	09/23/20 11:41	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	09/23/20 11:41	
Trichloroethene	ug/m3	<0.18	0.55	09/23/20 11:41	
Vinyl chloride	ug/m3	<0.10	0.26	09/23/20 11:41	

LABORATORY CONTROL SAMPLE: 3739754

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	41.6	42.7	102	70-132	
Tetrachloroethene	ug/m3	71	62.4	88	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	40.5	96	70-132	
Trichloroethene	ug/m3	56.3	51.3	91	70-132	
Vinyl chloride	ug/m3	26.7	27.4	103	68-141	

SAMPLE DUPLICATE: 3740872

Parameter	Units	10532801001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.26	<0.26			25
Tetrachloroethene	ug/m3	916	910	1		25
trans-1,2-Dichloroethene	ug/m3	<0.28	<0.28			25
Trichloroethene	ug/m3	1.3	1.4	8		25
Vinyl chloride	ug/m3	<0.17	<0.17			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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25220170 Webers Dry Cleaners-Revised Report
Pace Project No.: 10532807

QC Batch: 700396 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10532807005, 10532807011, 10532807012

METHOD BLANK: 3741245 Matrix: Air
Associated Lab Samples: 10532807005, 10532807011, 10532807012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.080	0.40	09/24/20 09:42	
Tetrachloroethene	ug/m3	<0.14	0.69	09/24/20 09:42	
trans-1,2-Dichloroethene	ug/m3	<0.084	0.40	09/24/20 09:42	
Trichloroethene	ug/m3	<0.088	0.27	09/24/20 09:42	
Vinyl chloride	ug/m3	<0.050	0.26	09/24/20 09:42	

LABORATORY CONTROL SAMPLE: 3741246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	41.6	43.5	104	70-132	
Tetrachloroethene	ug/m3	71	64.7	91	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	43.9	104	70-132	
Trichloroethene	ug/m3	56.3	56.9	101	70-132	
Vinyl chloride	ug/m3	26.7	26.1	98	68-141	

SAMPLE DUPLICATE: 3742253

Parameter	Units	10532644017 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.16		25	
Tetrachloroethene	ug/m3	ND	1.1J		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.17		25	
Trichloroethene	ug/m3	ND	<0.18		25	
Vinyl chloride	ug/m3	ND	<0.10		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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 25220170 Webers Dry Cleaners-Revised Report

Pace Project No.: 10532807

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.

ANALYTE QUALIFIERS

C8 Result may be biased high due to carryover from previously analyzed sample.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25220170 Webers Dry Cleaners-Revised Report

Pace Project No.: 10532807

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10532807001	IA-1 711 S. Church St	TO-15	700105		
10532807002	AR-1 711 S. Church St	TO-15	700105		
10532807003	IA-2 725 Sextonville	TO-15	700105		
10532807004	IA-3 735 Sextonville	TO-15	700105		
10532807005	IA-4 245 E. Gage	TO-15	700396		
10532807006	IA-5 678 S. Park	TO-15	700105		
10532807007	SB-1 711 S. Church	TO-15	700105		
10532807008	SB-2 725 Sextonville	TO-15	700105		
10532807009	SB-3 735 Sextonville	TO-15	700105		
10532807010	SB-4 245 E. Gage	TO-15	700105		
10532807011	SB-1 711 S. Church Duplicate	TO-15	700396		
10532807012	SB-5 678 S. Park	TO-15	700396		

REPORT OF LABORATORY ANALYSIS

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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: Company: **SSS Eng. needs** Report To: **Robert Langdon** Invoice Information: Attention: **Robert Langdon** Company Name: **SSS Eng. needs** Address: **2830 Dairy Dr. Madison WI 53718** Project Name: **Webers Dry Cleaners** Project Number: **25220120** Method: **PPB**

Section B Required Project Information: Report To: **Robert Langdon** Company Name: **SSS Eng. needs** Address: **2830 Dairy Dr. Madison WI 53718** Project Name: **Webers Dry Cleaners** Project Number: **25220120** Method: **PPB**

Section C Invoice Information: Attention: **Robert Langdon** Company Name: **SSS Eng. needs** Address: **2830 Dairy Dr. Madison WI 53718** Project Name: **Webers Dry Cleaners** Project Number: **25220120** Method: **PPB**

Section D Required Client Information: AIR SAMPLE ID: **IA-1** through **SB-5**. Sample IDs MUST BE UNIQUE.

ITEM #	Client Information	Media Code	COLLECTED		Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method	Pace Lab ID
			DATE	TIME						
1	IA-1 711 Church St	6LC92	9/17/20	8:48	26	3	3552	0768	TO-15 Full List VOCs	001
2	IA-1 711 Church St	6LC09	9/17	9:19	29	4	1475	1345	TO-15 Short List BTEX	002
3	IA-2 725 Sextonville	6LC05	9/17	9:36	30	4	3462	1501	TO-15 Short List BTEX	003
4	IA-3 735 Sextonville	6LC25	9/17	9:52	30	5	3446	1879	TO-15 Short List (other)	004
5	IA-4 245 Grange	6LC00	9/17	10:11	26	5	3038	2029	TO-14	005
6	IA-5 278 S. Park	6LC1	9/17	10:37	30	4	2328	2032	TO-3M (Methane)	006
7	SB-1 711 Church	6LC03	9/18	9:16	28	10	1468	0909	TO-3 BTEX	007
8	SB-2 725 Sextonville	6LC00	9/18	9:53	29	6	2387	0706	3C - Fixed Gas (%)	008
9	SB-3 735 Sextonville	6LC02	9/18	11:24	30	5	2106	1165	PM10	009
10	SB-4 245 Grange	6LC02	9/18	12:38	30	3	3654	1610	TO-15 Full List VOCs	010
11	SB-1A 711 Church	6LC03	9/18	12:24	30	5	0977	1187	TO-15 Short List BTEX	011
12	SB-5 278 S. Park	6LC03	9/18	13:31	30	7	3501	1192	TO-15 Short List (other)	012

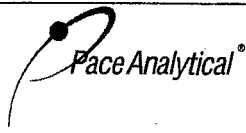
Comments: SB-1 105 **PPM** SB-1A 100 **PPM**

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Eric Oelkes	9/18/20	10:00	Walt [Signature]	9/22/20	12:00	Temp In °C: [Blank] Received on Ice: [Blank] Custody Sealed Cooler: [Blank] Samples Intact: [Blank]

SAMPLER NAME AND SIGNATURE: Eric Oelkes
 PRINT Name of SAMPLER: Eric Oelkes
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YYYY): 9/21/2020

WO#: 10532807

10532807



Document Name: Sample Condition Upon Receipt (SCUR) - Air

Document Revised: 24Mar2020

Page 1 of 1

Document No.: ENV-FRM-MIN4-0113 Rev.00

Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt

Client Name: SCS Eng.

Project #: WO#: 10532807

PM: KNH Due Date: 09/29/20
CLIENT: SCS Engineer

Courier: Fed Ex, UPS, USPS, Client, Pace, SpeedDee, Commercial, See Exception

Tracking Number: 1723 2545 9062, 4726, 4715

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap, Bubble Bags, Foam, None, Tin Can, Other: Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): Corrected Temp (°C): Thermometer Used: G87A9170600254, G87A9155100842

Temp should be above freezing to 6°C Correction Factor: Date & Initials of Person Examining Contents: 9-22-20 wj

Type of ice Received Blue Wet None

Comments:

Table with 13 rows of checklist items regarding Chain of Custody, sampling procedures, and container integrity. Includes handwritten 'Yes/No' responses and a note: 'Sample 3 is can 3642.'

Gauge # 10AIR26 10AIR34 10AIR35 4097

Canisters

Canisters

Table with 10 columns: Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure. Contains handwritten data for samples IA-1 through IA-5 and SB-1 through SB-5.

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Kirsten Hopper

Date: 9/23/2020



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

49482

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Program	
Company: SES Engineers		Report To: Robert Langdon		Attention: Robert Langdon		<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act	
Address: 2830 Dairy Dr Madison WI 53718		Copy To: Brian Oelkers		Company Name: SES Engineers		<input type="checkbox"/> Voluntary Clean Up <input checked="" type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
Email To: rlangdon@sesengineers.com		Purchase Order No.:		Address: 2830 Dairy Dr. Madison WI 53718		Location of Sampling by State: WI	
Phone: 608 212-3995 Fax: 608 224-2839		Project Name: Webers Dry Cleaners		Pace Quote Reference:		Reporting Units ug/m ³ <input type="checkbox"/> mg/m ³ <input type="checkbox"/> PPBV <input type="checkbox"/> PPMV <input type="checkbox"/> Other <input type="checkbox"/>	
Requested Due Date/TAT:		Project Number: 25220120		Pace Project Manager/Sales Rep. Kirsten Hoyerberg		Report Level: <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> Other	
				Pace Profile #: 32630			

ITEM #	Section D Required Client Information		MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:								Pace Lab ID	
	AIR SAMPLE ID				COMPOSITE START		COMPOSITE END/GRAB						PM10	SC - Filter Case (%)	To-3 BTEX	To-3M (Methane)	To-14	To-15 Full List VOCs	To-15 Short List BTEX	To-15 Short List Chlorinated		To-15 Short List (Other)
	Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE			DATE	TIME	DATE	TIME														
1	IA-1	711 S. Church St	6LL92	9/17/20 8:46	9/18 8:00	26	3	3552	0768										001			
2	IA-1	711 S. Church St	6LL09	9/17 9:19	9/18 8:07	29	4	1475	1395										002			
3	IA-2	725 Sextonville	6LL55	9/17 9:36	9/18 8:38	30	4	3462	1501										003			
4	IA-3	735 Sextonville	6LL25	9/17 9:52	9/18 8:47	30	5	3446	1879										004			
5	IA-4	245 E. Gage	6LL30	9/17 10:11	9/18 9:59	26	5	3038	2029										005			
6	IA-5	278 S. Park	6LL1	9/17 10:51	9/18 10:37	30	4	2328	2032										006			
7	SB-1	711 S. Church	6LL33	9/18 9:16	9/18 10:13	28	10	1468	0909										007			
8	SB-2	725 Sextonville	6LL31	9/18 9:53	9/18 10:44	29	6	2387	0706										008			
9	SB-3	735 Sextonville	6LL22	9/18 11:28	9/18 12:01	30	5	2106	1165										009			
10	SB-4	245 E. Gage	6LL102	9/18 11:38	9/18 12:38	30	3	3654	1610										010			
11	SB-1A	711 S. Church Duplicate	6LL103	9/18 12:24	9/18 12:59	30	5	0977	1187										011			
12	SB-5	278 S. Park	6LL23	9/18 13:39	9/18 14:11	30	7	3501	1192										012			

Comments:	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SB-1 105 ppm	Eric Oelkers	9/21/20	10:00	Walt J. Pa...	9/22/20	12:00	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
SB-1A 100 ppm										

WO#: 10532807

10532807

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Eric Oelkers**

SIGNATURE of SAMPLER: *Eric Oelkers*

DATE Signed (MM/DD/YY): **9/21/2020**



Pace Analytical Services, LLC
 1700 Elm Street, Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10532807
 Project Name: 25220170 Webers Dry Cleaners

Lab Sample No: 10532807001 ProjSampleNum: 10532807001 Date Collected: 09/18/20 8:00
 Client Sample ID: IA-1 711 Church St Matrix: Air Date Received: 09/22/20 12:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<0.06	ppbv	0.3	1.49	09/23/20 18:38	MLS 156-59-2	
Tetrachloroethene	57.9	ppbv	0.74	7.45	09/24/20 11:21	MLS 127-18-4	
trans-1,2-Dichloroethene	<0.062	ppbv	0.3	1.49	09/23/20 18:38	MLS 156-60-5	
Trichloroethene	0.17	ppbv	0.15	1.49	09/23/20 18:38	MLS 79-01-6	
Vinyl chloride	<0.058	ppbv	0.15	1.49	09/23/20 18:38	MLS 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
 Units Conversion Request



Pace Analytical Services, LLC
 1700 Elm Street, Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10532807
 Project Name: 25220170 Webers Dry Cleaners

Lab Sample No: 10532807002 ProjSampleNum: 10532807002 Date Collected: 09/18/20 8:07
 Client Sample ID: AR-1 711 Church St Matrix: Air Date Received: 09/22/20 12:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<0.06	ppbv	0.3	1.46	09/23/20 20:03	MLS 156-59-2	
Tetrachloroethene	1.1	ppbv	0.15	1.46	09/24/20 9:34	MLS 127-18-4	C8
trans-1,2-Dichloroethene	<0.062	ppbv	0.3	1.46	09/23/20 20:03	MLS 156-60-5	
Trichloroethene	<0.048	ppbv	0.15	1.46	09/23/20 20:03	MLS 79-01-6	
Vinyl chloride	<0.058	ppbv	0.15	1.46	09/23/20 20:03	MLS 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
 Units Conversion Request



Pace Analytical Services, LLC
 1700 Elm Street, Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10532807
 Project Name: 25220170 Webers Dry Cleaners

Lab Sample No: 10532807003 ProjSampleNum: 10532807003 Date Collected: 09/18/20 8:38
 Client Sample ID: IA-2 725 Sextonville Matrix: Air Date Received: 09/22/20 12:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<0.06	ppbv	0.3	1.52	09/23/20 17:13	MLS 156-59-2	
Tetrachloroethene	0.13J	ppbv	0.15	1.52	09/24/20 10:02	MLS 127-18-4	
trans-1,2-Dichloroethene	<0.065	ppbv	0.3	1.52	09/23/20 17:13	MLS 156-60-5	
Trichloroethene	<0.049	ppbv	0.15	1.52	09/23/20 17:13	MLS 79-01-6	
Vinyl chloride	<0.058	ppbv	0.15	1.52	09/23/20 17:13	MLS 75-01-4	

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SUPPLEMENTAL REPORT
 Units Conversion Request



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 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10532807
 Project Name: 25220170 Webers Dry Cleaners

Lab Sample No: 10532807004 ProjSampleNum: 10532807004 Date Collected: 09/18/20 8:47
 Client Sample ID: IA-3 735 Sextonville Matrix: Air Date Received: 09/22/20 12:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<0.06	ppbv	0.3	1.49	09/23/20 19:06	MLS 156-59-2	
Tetrachloroethene	0.14J	ppbv	0.15	1.49	09/23/20 19:06	MLS 127-18-4	
trans-1,2-Dichloroethene	<0.062	ppbv	0.3	1.49	09/23/20 19:06	MLS 156-60-5	
Trichloroethene	<0.048	ppbv	0.15	1.49	09/23/20 19:06	MLS 79-01-6	
Vinyl chloride	<0.058	ppbv	0.15	1.49	09/23/20 19:06	MLS 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
 Units Conversion Request



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ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10532807
 Project Name: 25220170 Webers Dry Cleaners

Lab Sample No: 10532807005 ProjSampleNum: 10532807005 Date Collected: 09/18/20 9:59
 Client Sample ID: IA-4 245 Gage Matrix: Air Date Received: 09/22/20 12:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<0.06	ppbv	0.3	1.49	09/24/20 14:47 MLS	156-59-2	
Tetrachloroethene	0.26J	ppbv	0.3	1.49	09/24/20 14:47 MLS	127-18-4	
trans-1,2-Dichloroethene	0.17J	ppbv	0.3	1.49	09/24/20 14:47 MLS	156-60-5	
Trichloroethene	<0.048	ppbv	0.15	1.49	09/24/20 14:47 MLS	79-01-6	
Vinyl chloride	<0.058	ppbv	0.3	1.49	09/24/20 14:47 MLS	75-01-4	

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 Units Conversion Request



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ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10532807
 Project Name: 25220170 Webers Dry Cleaners

Lab Sample No: 10532807006 ProjSampleNum: 10532807006 Date Collected: 09/18/20 10:37
 Client Sample ID: IA-5 278 S. Park Matrix: Air Date Received: 09/22/20 12:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<0.06	ppbv	0.3	1.49	09/23/20 17:41	MLS 156-59-2	
Tetrachloroethene	0.09J	ppbv	0.15	1.49	09/23/20 17:41	MLS 127-18-4	
trans-1,2-Dichloroethene	<0.062	ppbv	0.3	1.49	09/23/20 17:41	MLS 156-60-5	
Trichloroethene	<0.048	ppbv	0.15	1.49	09/23/20 17:41	MLS 79-01-6	
Vinyl chloride	<0.058	ppbv	0.15	1.49	09/23/20 17:41	MLS 75-01-4	

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SUPPLEMENTAL REPORT
 Units Conversion Request



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ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10532807
 Project Name: 25220170 Webers Dry Cleaners

Lab Sample No: 10532807007 ProjSampleNum: 10532807007 Date Collected: 09/18/20 10:13
 Client Sample ID: SB-1 711 Church Matrix: Air Date Received: 09/22/20 12:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
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Air
 TO-15

cis-1,2-Dichloroethene	<39.5	ppbv	198	988.8	09/23/20 21:52	MLS 156-59-2	
Tetrachloroethene	122000	ppbv	1580	15820	09/24/20 12:40	MLS 127-18-4	
trans-1,2-Dichloroethene	<41.2	ppbv	198	988.8	09/23/20 21:52	MLS 156-60-5	
Trichloroethene	154	ppbv	98.9	988.8	09/23/20 21:52	MLS 79-01-6	
Vinyl chloride	<38.4	ppbv	98.9	988.8	09/23/20 21:52	MLS 75-01-4	

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SUPPLEMENTAL REPORT
 Units Conversion Request



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ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10532807
 Project Name: 25220170 Webers Dry Cleaners

Lab Sample No: 10532807008 ProjSampleNum: 10532807008 Date Collected: 09/18/20 10:44
 Client Sample ID: SB-2 725 Sextonville Matrix: Air Date Received: 09/22/20 12:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<2	ppbv	10.1	50.4	09/23/20 21:26	MLS 156-59-2	
Tetrachloroethene	3860	ppbv	40.3	403.2	09/24/20 12:14	MLS 127-18-4	
trans-1,2-Dichloroethene	<2.1	ppbv	10.1	50.4	09/23/20 21:26	MLS 156-60-5	
Trichloroethene	<1.6	ppbv	5	50.4	09/23/20 21:26	MLS 79-01-6	
Vinyl chloride	<2	ppbv	5	50.4	09/23/20 21:26	MLS 75-01-4	

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 Units Conversion Request



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ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10532807
 Project Name: 25220170 Webers Dry Cleaners

Lab Sample No: 10532807009 ProjSampleNum: 10532807009 Date Collected: 09/18/20 12:01
 Client Sample ID: SB-3 735 Sextonville Matrix: Air Date Received: 09/22/20 12:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<0.06	ppbv	0.3	1.49	09/23/20 21:00	MLS 156-59-2	
Tetrachloroethene	74.1	ppbv	1.5	14.9	09/24/20 11:48	MLS 127-18-4	
trans-1,2-Dichloroethene	<0.062	ppbv	0.3	1.49	09/23/20 21:00	MLS 156-60-5	
Trichloroethene	0.079J	ppbv	0.15	1.49	09/23/20 21:00	MLS 79-01-6	
Vinyl chloride	<0.058	ppbv	0.15	1.49	09/23/20 21:00	MLS 75-01-4	

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 Units Conversion Request



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ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10532807
 Project Name: 25220170 Webers Dry Cleaners

Lab Sample No: 10532807010 ProjSampleNum: 10532807010 Date Collected: 09/18/20 12:38
 Client Sample ID: SB-4 245 Gage Matrix: Air Date Received: 09/22/20 12:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<0.057	ppbv	0.27	1.41	09/23/20 22:47	MLS 156-59-2	
Tetrachloroethene	542	ppbv	17	169.2	09/24/20 13:06	MLS 127-18-4	
trans-1,2-Dichloroethene	<0.06	ppbv	0.27	1.41	09/23/20 22:47	MLS 156-60-5	
Trichloroethene	0.066J	ppbv	0.14	1.41	09/23/20 22:47	MLS 79-01-6	
Vinyl chloride	<0.054	ppbv	0.14	1.41	09/23/20 22:47	MLS 75-01-4	

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 Units Conversion Request



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ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10532807
 Project Name: 25220170 Webers Dry Cleaners

Lab Sample No: 10532807011 ProjSampleNum: 10532807011 Date Collected: 09/18/20 12:59
 Client Sample ID: SB-1 711 Church Duplicate Matrix: Air Date Received: 09/22/20 12:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<457	ppbv	2290	11440	09/24/20 15:17 MLS	156-59-2	
Tetrachloroethene	186000	ppbv	2290	11440	09/24/20 15:17 MLS	127-18-4	
trans-1,2-Dichloroethene	<476	ppbv	2290	11440	09/24/20 15:17 MLS	156-60-5	
Trichloroethene	<368	ppbv	1140	11440	09/24/20 15:17 MLS	79-01-6	
Vinyl chloride	<446	ppbv	2290	11440	09/24/20 15:17 MLS	75-01-4	

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SUPPLEMENTAL REPORT
 Units Conversion Request



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ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10532807
 Project Name: 25220170 Webers Dry Cleaners

Lab Sample No: 10532807012 ProjSampleNum: 10532807012 Date Collected: 09/18/20 14:11
 Client Sample ID: SB-5 278 S. Park Matrix: Air Date Received: 09/22/20 12:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	<0.067	ppbv	0.35	1.68	09/24/20 14:11	MLS 156-59-2	
Tetrachloroethene	1.5	ppbv	0.33	1.68	09/24/20 14:11	MLS 127-18-4	
trans-1,2-Dichloroethene	<0.069	ppbv	0.35	1.68	09/24/20 14:11	MLS 156-60-5	
Trichloroethene	<0.055	ppbv	0.17	1.68	09/24/20 14:11	MLS 79-01-6	
Vinyl chloride	<0.065	ppbv	0.33	1.68	09/24/20 14:11	MLS 75-01-4	

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 Units Conversion Request



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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10532807
Project Name: 25220170 Webers Dry Cleaners

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

[C8] Result may be biased high due to carryover from previously analyzed sample.

SUPPLEMENTAL REPORT

Units Conversion Request