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May 8, 2018

Ms. Carrie Stoltz  
Wisconsin Department of Natural Resources  
107 Sutliff Avenue  
Rhineland, WI 54501

Subject: Vapor Intrusion Investigation Results – Sampling Event 1  
Former Northwoods Laundry Site, Minocqua, Wisconsin  
WisDOT Project ID #0656-50-31; WDNR BRRTS #02-44-000517

Dear Ms. Stoltz:

This letter presents a summary of the first round of vapor intrusion (VI) monitoring completed for the Former Northwoods Laundry Site (BRRTS #02-44-000517) in Minocqua, Wisconsin (Figure 1). The purpose of this document is to provide a summary of the monitoring completed to evaluate vapor intrusion in select properties near the Former Northwoods Laundry Site and to provide recommendations for further monitoring.

### Introduction

The former Northwoods Laundry property (Site) was located at 405 Front Street in Minocqua, Wisconsin. The Wisconsin Department of Transportation (WisDOT) became the Responsible Party (RP) for the chlorinated volatile organic compounds (CVOCs) dissolved phase plume (primarily trichloroethene (TCE) and tetrachloroethene (PCE)) at the Site when it acquired the property for USH 51 reconstruction activities in 1995. A summary of the Site background was included in the Vapor Intrusion Investigation Work Plan (“VI Work Plan”; TRC, 2018), submitted to the Wisconsin Department of Natural Resources (WDNR) in March of 2018.

TRC Environmental Corporation (TRC) on behalf of WisDOT completed a vapor pathway screening assessment to determine if properties near the Site would warrant an invasive VI pathway evaluation. The main conclusions of the assessment were that invasive vapor sampling would be required at:

- One abandoned garage building located east of the former Northwoods Laundry building location;

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- Seven small commercial buildings to the west-northwest of the Site along Front Street (Note some properties include multiple business but generally have individual or shared lower levels if present); and
- One residential property to the west of the Site.

The number and type of samples recommended were based on the type and condition of each property. Table 1 includes a list of the properties with sample details and Figure 2 identifies the location of each property with respect to the Site.

### Vapor Intrusion Field Screening Summary

In accordance with the Work Plan, TRC completed background air, indoor air, and sub-slab vapor sampling at nine parcels identified in Table 1 and on Figure 2. TRC was onsite between March 21 and 23, 2018 to complete the monitoring event. This initial VI monitoring event was conducted to assess the VI pathway at the site under conservative sampling conditions. The locations of the sample collection points for each parcel are shown on Figures 3 – 7.

#### **Background (Outdoor) Air Samples**

Background ambient air (Outdoor) samples were collected near the properties being investigated to provide additional information about ambient air quality surrounding the properties. Two background air samples (Outdoor 1 and Outdoor 2) were collected over the three-day monitoring event. Outdoor 1 was collected between March 21 and 22 and Outdoor 2 between March 22 and 23. Each background air sample was collected using a 6-liter SUMMA® canister with a 24-hour regulator. The sample duration was shortened from the planned 24-hour period for select samples where canister vacuum had depreciated below 5 inches of mercury (in Hg). Each SUMMA® canister was submitted to PACE Analytical Laboratory for EPA Method Toxic Organic (TO) -15 analyses for a select list of CVOCs (PCE, TCE, cis-1,2 dichloroethene, trans-1,2 dichloroethene, and vinyl chloride). The location of the two background samples are shown on Figures 4 and 7.

#### **Indoor Air Samples**

Indoor air sample(s) were collected from the lower level of the residential building and from the lower level or main level for the small commercial buildings (depending on construction) prior to the installation of the sub-slab sample point. Overall, 10 indoor air samples were collected during the monitoring event. Each indoor air sample was collected using a 6-liter SUMMA® canister with a 24-hour regulator. The sample duration was



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shortened from the planned 24-hour period for select samples where canister vacuum had depreciated below 5 inches of mercury (in Hg). Each SUMMA<sup>®</sup> canister was submitted to PACE Analytical Laboratory for EPA Method TO -15 analyses for a select list of CVOCs (PCE, TCE, cis-1,2 dichloroethene, trans-1,2 dichloroethene, and vinyl chloride). The locations of the indoor air samples are shown on Figures 4 through 7.

### **Sub-slab Vapor Samples**

Sub-slab vapor sample(s) were collected from the lower level of the residential building and from the lower level or main level for the small commercial buildings (depending on construction). Based on the layout and size of select properties, multiple sub-slab samples were collected. Overall, 12 sub-slab vapor samples and one duplicate sample were collected during the monitoring event. The duplicate sample was collected in conjunction with the sub-sample collected from 300 Front Street as a quality assurance measure. In addition, three leak tests (Water Dam Test, Helium Shroud Test, and Shut-in Test) were completed as outlined in the Work Plan to check the integrity of the sampling equipment. Each sub-slab vapor sample was collected using a 6-liter SUMMA<sup>®</sup> canister with a 30-minute regulator. The sample duration was extended past 30-minutes for select samples where sufficient vacuum had not depreciated to below at least 8 in Hg. Each SUMMA<sup>®</sup> canister was submitted to PACE Analytical Laboratory for EPA Method TO -15 analyses for a select list of CVOCs (PCE, TCE, cis-1,2 dichloroethene, trans-1,2 dichloroethene, and vinyl chloride). The locations of the sub-slab vapor samples are shown on Figures 3 - 7.

### **Vapor Intrusion Field Screening Results**

Results from the first round of VI sampling, conducted under conservative conditions, for the former Northwoods Laundry Site indicate the presence of CVOCs in, and below select properties, and within the areas background ambient air. The VI sampling results were compared to the WDNR Vapor Action Levels (VALs) for indoor air and Vapor Risk Screening Levels (VRSLs) for sub-slab vapors. No exceedances of the WDNR VALs or VRSLs were reported. A summary of the laboratory analytical results and the leak test data are included in Table 2, and the complete laboratory analytical reports are included in Attachment 1. A brief discussion of the sampling results is provided below.

### **Background (Outdoor) Air Sample Results**

Background sample Outdoor 1 was collected from the parking lot area along the south side of 317 Front Street. PCE was the only CVOc detected in the sample at a concentration of 16.7 µg/m<sup>3</sup>. The second background sample, Outdoor 2, was collected from the southeast



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corner of the building located at 300 Front Street. There were no detections of CVOCs in the background Outdoor 2 sample.

#### **Indoor Air Sample Results**

Ten indoor air samples were collected between March 21 and 23, 2018. Six of the 10 samples contained detections of PCE. TCE, cis-1,2 dichloroethene, trans-1,2 dichloroethene, and vinyl chloride were not detected in any of the indoor air samples. Of the six samples with PCE detections, four were reported as estimated concentrations (above the limit of detection but below the limit of quantitation). None of samples with PCE detections exceeded the WDNR indoor air VALs for residential or small commercial properties.

#### **Sub-slab Vapor Sample Results**

Twelve sub-slab vapor samples were collected between March 22 and 23, 2018. PCE was detected in 10 of the 12 sub-slab samples; however, none of the concentrations of PCE exceeded the WDNR sub-slab VRSL for residential or small commercial properties. In addition, one sample (301-307 SS-2) contained concentrations of TCE, cis-1,2 dichloroethene, trans-1,2 dichloroethene, and vinyl chloride above the laboratory method detection limit. However, the detected concentrations of the reported analytes were below their respective WDNR sub-slab VRSLs for small commercial properties.

#### **Conclusions**

TRC, on behalf of WisDOT, completed a VI pathway sampling evaluation to determine if select properties near the Site contain a risk, or a potential future risk, of VI due to the presence of a dissolved phase groundwater plume of PCE and TCE. Results from the first round of sampling indicate that there are CVOCs in and below select properties and within the background ambient air. However, the results of the first round of VI sampling performed under conservative conditions, were below the WDNR indoor air VALs and sub-slab VRSLs. Based on these results, TRC recommends that one additional round of VI sampling be completed in June/July 2018. We recommend that the second round include all the properties included in the first round. A third sampling event will be evaluated once the additional results from the June/July event are available.



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If you have any questions regarding this sampling evaluation, please contact me at (608) 826-3665, or Theodore O'Connell at (608) 826-3648.

Sincerely,

TRC Environmental Corporation



Andrew M. Stehn, P.E.  
Project Engineer



Theodore O'Connell  
Project Manager

cc: Shar TeBeest – WisDOT (PDF via email)

#### References

TRC Environmental Corporation (TRC). 2018. Vapor Intrusion Investigation Work Plan, Former Northwoods Laundry Site, Minocqua, Wisconsin. Prepared by TRC Environmental Corporation, Madison, Wisconsin. March 2018

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Figure 6	Property Layout/Results – Property ID 11
Figure 7	Property Layout/Results – Property ID 13

#### Attachments

Attachment 1	Laboratory Analytical Results
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## Tables

Table 1  
Vapor Intrusion Monitoring Summary  
Former Northwoods Laundry (BRRTS #02-44-000517, WISDOT #0656-50-31)  
Minocqua, Oneida County, Wisconsin  
TRC Project # 298526.0000.0000

TRC Property ID	Site Address	Site Contact	Lower Level Present	Indoor Air Sample	Indoor Air Sample ID	Sub-slab Vapor Sample	Sub-slab Vapor Sample ID
1	<i>Property did not contain any building/structures, so was not further assessed.</i>						
2	<i>Property did not contain any building/structures, so was not further assessed.</i>						
3	405 Front Street	William Schmitz	N	0	-	1	405-SS
4	515 Chippewa Street	Curtis Trinko	Y	1	515-IA	1	515-SS
5	329 East Front Street	Curtis Trinko	N	1	329-IA	1	329-SS
6	<i>Property was a drive way between 321 Front Street and 329 East Front Street, so was not further assessed.</i>						
7	321 Front Street	Vic Ouimette	Y	1	321-IA	1	321-SS
8	313 Front Street	Vic Ouimette	Y	1	313-IA	1	313-SS
8	315 Front Street	Vic Ouimette	Y	1	315-IA	1	315-SS
8	317 Front Street	Vic Ouimette	Y	1	317-IA	1	317-SS
9 & 10	301-307 Front Street	John and Tim Teichmiller	Y	2	301-307-IA-C and 301-307-IA-S	3	301-307-SS-1, 301-307-SS-2, and 301-307-SS-3
11	527 Oneida Street	Scot and Susan Bassett	Y	1	527-IA	1	527-SS
12	<i>Property contained a public restroom, but was not further assessed based on the delineated PCE/TCE plume extents.</i>						
13	300 Front Street	David and Susan Jaster	N	1	300-IA	1	300-SS and DUP-01
14	<i>Property did not contain any building/structures, so was not further assessed.</i>						
15	<i>Property contained a building, but was not further assessed based on the delineated PCE/TCE plume extents.</i>						
16	<i>Property contained a building, but was not further assessed based on the delineated PCE/TCE plume extents.</i>						

**Notes:**

1. The sample quantities listed above were collected during the first vapor intrusion monitoring event in March 2018.
2. Two outdoor air samples (sample identification Outdoor 1 and Outdoor 2) were collected during the first monitoring event.

Created By: A.Stehn 4/26/2018  
Checked By: A. Schroeder 4/30/2018

**Table 2**  
**Air/Vapor Sampling Results**  
**Former Northwoods Laundry (BRRS #02-44-000517, WISDOT #0656-50-31)**  
**Minocqua, Oneida County, Wisconsin**  
**TRC Project # 298526.0000.0000**

Map ID	Address	Sample Type	Sample ID	Date	Leak Check	Shut-In Test <sup>(4)</sup>	Helium Shroud Test			Vapor Results <sup>(8)(9)</sup>				
					Water Dam <sup>(3)</sup>		Background <sup>(5)</sup>	Inside Shroud <sup>(6)</sup>	Sample Port <sup>(7)</sup>	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chlorine
					-	-	%	%	%	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
-	-	Outdoor	Outdoor - 1	3/21/18 - 3/22/2018	-	-	-	-	-	16.7	<0.39	<0.49	<0.42	<0.18
-	-	Outdoor	Outdoor - 2	3/22/2018 - 3/23/2018	-	-	-	-	-	<0.43	<0.40	<0.51	<0.44	<0.19
3	405 Front Street, Minocqua, WI 54548	Sub-Slab	405-SS	3/23/2018	Pass	Pass	0	45.3	0	15.5	<0.42	<0.54	<0.47	<0.20
4 <sup>(8)</sup>	515 Chippewa St., Minocqua, WI 54548	Indoor Air	515-IA	3/21/2018 - 3/22/2018	-	-	-	-	-	<0.40	<0.38	<0.48	<0.42	<0.18
		Sub-Slab	515-SS	3/22/2018	Pass	Pass	0	36.9	0	<0.48	<0.45	<0.57	<0.50	<0.21
5	329 E Front St., Minocqua, WI 54548	Indoor Air	329-IA	3/21/2018 - 3/22/2018	-	-	-	-	-	0.47J	<0.37	<0.47	<0.41	<0.18
		Sub-Slab	329-SS	3/22/2018	Pass	Pass	0	31.8	0	11.2	<0.42	<0.53	<0.46	<0.20
7	321 E Front St., Minocqua, WI 54548	Indoor Air	321-IA	3/21/2018 - 3/22/2018	-	Pass	-	-	-	<0.43	<0.40	<0.51	<0.44	<0.19
		Sub-Slab	321-SS	3/22/2018	Pass	-	0	43.2	0	8.5	<0.43	<0.55	<0.47	<0.20
8	317 E Front St., Minocqua, WI 54548	Indoor Air	317-IA	3/21/2018 - 3/22/2018	-	Pass	-	-	-	0.48J	<0.39	<0.49	<0.42	<0.18
		Sub-Slab	317-SS	3/22/2018	Pass	-	0	54	0	41.9	<0.49	<0.62	<0.54	<0.23
	315 E Front St., Minocqua, WI 54548	Indoor Air	315-IA	3/21/2018 - 3/22/2018	-	Pass	-	-	-	<0.43	<0.40	<0.51	<0.44	<0.19
		Sub-Slab	315-SS	3/22/2018	Pass	-	0	23.1	0	2.7	<0.42	<0.54	<0.47	<0.20
	313 E Front St., Minocqua, WI 54548	Indoor Air	313-IA	3/21/2018 - 3/22/2018	-	Pass	-	-	-	0.93J	<0.42	<0.53	<0.46	<0.20
		Sub-Slab	313-SS	3/22/2018	Pass	-	0	46.4	0	2.4	<0.43	<0.55	<0.47	<0.20
9 & 10	301 -307 E Front St., Minocqua, WI 54548 & 524 Oneida St., Minocqua, WI 54548	Indoor Air	301-307-IA-C	3/21/2018 - 3/22/2018	-	-	-	-	-	1.9	<0.40	<0.51	<0.44	<0.19
		Indoor Air	301-307-IA-S	3/21/2018 - 3/22/2018	-	-	-	-	-	1.4	<0.53	<0.67	<0.58	<0.25
		Sub-Slab	301-307-SS-1	3/22/2018	Pass	Pass	0	46.1	0.12	4.2	<0.43	<0.55	<0.47	<0.20
		Sub-Slab	301-307-SS-2	3/22/2018	Pass	Pass	0	46.2	0	10.9	3.4	2.1	1.8	1.8
		Sub-Slab	301-307-SS-3	3/22/2018	Pass	Pass	0	42.4	0	308	<0.60	<0.77	<0.66	<0.28
11	527 Oneida St., Minocqua, WI 54548	Indoor Air	527-IA	3/22/2018 - 3/23/2018	-	-	-	-	-	0.55J	<0.42	<0.53	<0.46	<0.20
		Sub-Slab	527-SS	3/23/2018	Pass	Pass	0	37	0	9.6	<0.43	<0.55	<0.47	<0.20
13	300 E Front St., Minocqua, WI 54548	Indoor Air	300-IA	3/22/2018 - 3/23/2018	-	-	-	-	-	<0.42	<0.39	<0.50	<0.43	<0.18
		Sub-Slab	300-SS	3/23/2018	Pass	Pass	0	21.1	0	<0.44	<0.42	<0.53	<0.46	<0.20
		Duplicate	DUP-01	3/23/2018						<0.44	<0.42	<0.53	<0.46	<0.20
Residential <sup>(8)</sup>					Indoor Vapor Action Level <sup>(1)</sup>					42	2.1	--	--	1.7
					Sub-Slab Vapor Screening Level <sup>(2)</sup>					1,400	70	--	--	57
Small Commercial <sup>(9)</sup>					Indoor Vapor Action Level <sup>(1)</sup>					180	8.8	--	--	28
					Sub-Slab Vapor Screening Level <sup>(2)</sup>					6,000	290	--	--	930

**Notes:**

VAL = Vapor Action Level  
VSL = Vapor Screening Level  
- = not applicable  
-- = no standard developed for this parameter  
J = Estimated concentration at or above the laboratory limit of detection and below the laboratory limit of quantitation.  
µg/m<sup>3</sup> = micrograms per cubic meter  
**Bold** text indicates an exceedance of an Indoor Vapor Action Level or Sub-Slab Vapor Screening Level

Updated by: A. Stehn 4/26/2018  
Checked by: A. Schroeder 4/30/2018

**Footnotes:**

- (1) VALs for Indoor Air from Regional Screening Tables: <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-november-2017>. Uses a 1-in-100,000 excess lifetime cancer risk and HI=1 for screening indoor air.
- (2) An attenuation factor of 0.03 (dilution factor of 33) is applied to the Indoor VALs to determine the VSLs for Sub-Slab Vapor for residential/small commercial buildings.
- (3) Water dam was created by pouring water around the Cox-Colvin Vapor Pin<sup>TM</sup> sample port following installation. If water maintained constant head, then tight seal was verified at the port.
- (4) A vacuum was applied to the sample train and allowed to sit for 6 minutes based on the use of 6-L Summa canisters. If there was no noticeable change in the vacuum, the shut-in test passed.
- (5) A helium meter was connected to the vapor probe and the sub-slab vapors were tested to obtain a background concentration prior to the helium test being completed.
- (6) A shroud was installed around the vapor pin and filled with helium at a concentration between 20% and 50% by volume.
- (7) While helium at a concentration between 20% and 50% by volume was maintained in the shroud, sub-slab vapors were retested using the helium meter. If the concentration was less than 5% by volume, the helium test passed and a sample was collected.
- (8) 515 Chippewa Street is a residential home currently used for storage for the adjacent business located at 329 E Front Street. This property was evaluated using the Residential VAL and VSL.
- (9) Results were compared to the Small Commercial VAL and VSL, with the exception of the property at 515 Chippewa Street.



## Figures



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.



708 Heartland Trail  
Suite 3000  
Madison, WI 53717  
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TRC - GIS

PROJECT:

**WISDOT ID# 0656-50-31  
FORMER NORTHWOODS LAUNDRY  
MINOCQUA, ONEIDA COUNTY, WISCONSIN**

TITLE:

**SITE LOCATION MAP**

DRAWN BY:

R. SUEMNIGHT

CHECKED BY:

T. O'CONNELL

APPROVED BY:

D. HAAK

DATE:

MAY 2018

PROJ. NO.:

298526

FILE:

298526-019slm.mxd

**FIGURE 1**



TRC - GIS  
 Coordinate System: NAD 1983 StatePlane Wisconsin North FIPS 4801 Feet (Foot US)  
 Map Rotation: 0  
 Plot Date: 5/8/2018 10:42:49 AM by RSUEMNICT -- LAYOUT: ANSI B(11"x17")  
 Path: E:\WI\_DOT\2016\_242567298526-018.mxd

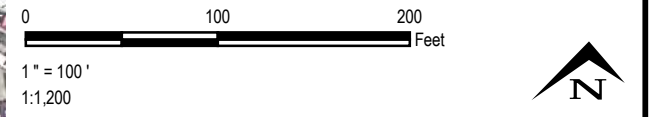


### LEGEND

- TRC SMALL DIAMETER PIEZOMETER
- TRC SMALL DIAMETER WATER TABLE WELL
- NOVEMBER 2017 PCE ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)
- VAPOR SAMPLING NOT COMPLETED AS NO BUILDINGS ARE PRESENT
- PARCEL WAS INVESTIGATED AND VAPOR SAMPLING COMPLETED
- VAPOR SAMPLING NOT COMPLETED BASED ON EXTENTS OF CONTAMINATION
- APPROXIMATE FORMER NORTHWOODS LAUNDRY BUILDING EXTENT

WELL ID	NOVEMBER 2017 GROUNDWATER SAMPLING RESULTS (µg/L)
1	TRC PROPERTY ID

- ### NOTES
- BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JULY 2015.
  - MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN- NORTH (US SURVEY FEET).
  - ALL MAP FEATURE LOCATIONS ARE APPROXIMATE.
  - TRC SMALL DIAMETER WELLS AND PIEZOMETERS WERE SAMPLED NOVEMBER 30<sup>TH</sup> AND DECEMBER 1<sup>ST</sup>, 2017.



PROJECT:		<b>WISDOT ID# 0656-50-31</b>	
		<b>FORMER NORTHWOODS LAUNDRY</b>	
		<b>MINOCQUA, ONEIDA COUNTY, WISCONSIN</b>	
TITLE:			
<b>SITE OVERVIEW MAP -</b>			
<b>VAPOR INTRUSION EVALUATION</b>			
DRAWN BY:	R. SUEMNICT	PROJ NO.:	298526
CHECKED BY:	T. O'CONNELL		
APPROVED BY:	D. HAAK	<b>FIGURE 2</b>	
DATE:	MAY 2018		
		708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com	
FILE NO.:		298526-018.mxd	



TRC - GIS  
 Coordinate System: NAD 1983 StatePlane Wisconsin North FIPS 4801 Feet (Foot US)  
 Map Rotation:  
 Plot Date: 5/8/2018 10:41:36 AM by RSUEMNICHT -- LAYOUT: ANSIB(11"x17")  
 Path: E:\WI\_DOT\2018\_242567\298526-016mb.mxd



**LEGEND**

- 1 TRC PROPERTY ID
- X SUB-SLAB SAMPLE
- APPROXIMATE BUILDING EXTENT
- APPROXIMATE FORMER NORTHWOODS LAUNDRY BUILDING EXTENT
- APPROXIMATE PARCEL BOUNDARY

WELL ID	MARCH 2018 INDOOR AIR SAMPLING RESULTS (µg/L)
PCE	
TCE	

- NOTES**
1. BASEMAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JULY 2015.
  2. MAP ROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN-NORTH (US SURVEY FEET).
  3. ALL MAP FEATURE LOCATIONS AND SIZES ARE APPROXIMATE.
  4. AIR/VAPOR SAMPLING WAS COMPLETED BY TRC BETWEEN MARCH 21 & 23, 2018.
  5. BUILDING CONTAINS A SLAB CONSTRUCTED ON GRADE, NO LOWER LEVEL PRESENT.
  6. NO INDOOR AIR SAMPLE WAS INSTALLED BASED ON THE BUILDING CONDITION.



<b>PROJECT:</b>	
WISDOT ID# 0656-50-31 FORMER NORTHWOODS LAUNDRY MINOCQUA, ONEIDA COUNTY, WISCONSIN	
<b>TITLE:</b>	
PROPERTY LAYOUT/RESULTS - PROPERTY IDs 1 THROUGH 3	
DRAWN BY: R. SUEMNICHT	PROJ NO.: 298526
CHECKED BY: T. O'CONNELL	<b>FIGURE 3</b>
APPROVED BY: D. HAAK	
DATE: MAY 2018	
<span style="float: right; font-size: small;">708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com</span>	
FILE NO.: 298526-016mb.mxd	



TRC - GIS  
 Coordinate System: NAD 1983 StatePlane Wisconsin North FIPS 4801 Feet (Foot US)  
 Map Rotation: 0  
 Plot Date: 5/8/2018 10:41:36 AM by RSUEMNICHT -- LAYOUT: ANSIB(11"x17")  
 Path: E:\WI\_DOT\2018\_242567\298526-016mb.mxd



**LEGEND**

- 1 TRC PROPERTY ID
- ▲ INDOOR AIR SAMPLE
- SUB-SLAB SAMPLE
- OUTDOOR SAMPLE
- ⊕ APPROXIMATE LOCATION OF SUMP CROCK
- ▬▬▬ APPROXIMATE LOCATION OF STAIRS
- APPROXIMATE BUILDING EXTENT
- APPROXIMATE BUILDING EXTENT WITH NO ACCESS
- APPROXIMATE LOWER LEVEL CONCRETE FLOOR
- APPROXIMATE PARCEL BOUNDARY

**WELL ID**  
 PCE  
 TCE

MARCH 2018 INDOOR AIR SAMPLING RESULTS (µg/L)

- NOTES**
1. BASEMAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JULY 2015.
  2. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN-NORTH (US SURVEY FEET).
  3. ALL MAP FEATURE LOCATIONS AND SIZES ARE APPROXIMATE.
  4. AIR/VAPOR SAMPLING WAS COMPLETED BY TRC BETWEEN MARCH 21 & 23, 2018.
  5. BUILDING CONTAINS A SLAB CONSTRUCTED ON GRADE, NO LOWER LEVEL PRESENT.



PROJECT: **WISDOT ID# 0656-50-31**  
**FORMER NORTHWOODS LAUNDRY**  
**MINOCQUA, ONEIDA COUNTY, WISCONSIN**

TITLE: **PROPERTY LAYOUT/RESULTS -**  
**PROPERTY IDs 4 THROUGH 8**

DRAWN BY: R. SUEMNICHT PROJ NO.: 298526

CHECKED BY: T. O'CONNELL

APPROVED BY: D. HAAK

DATE: MAY 2018

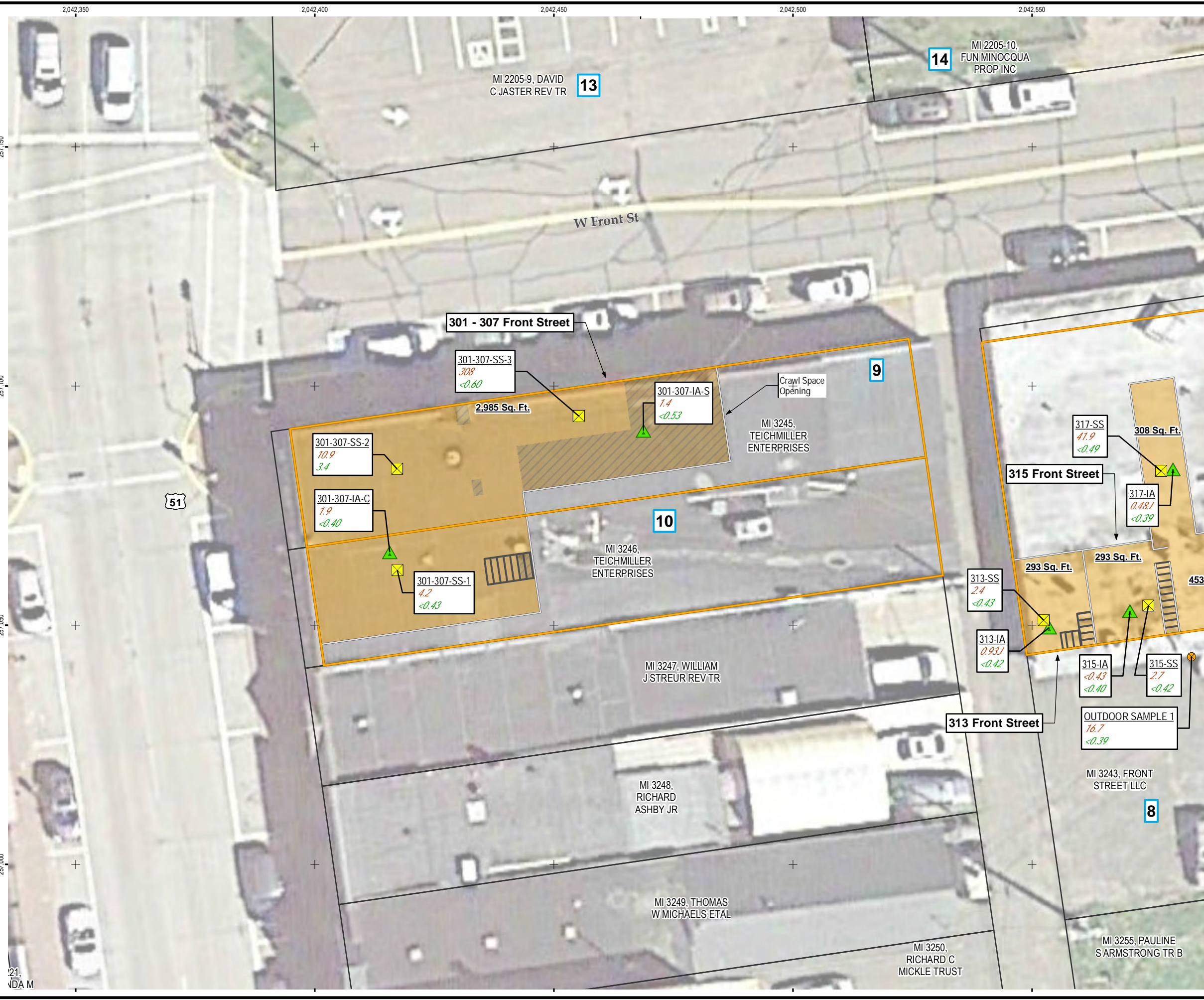
**FIGURE 4**

**TRC** 708 Heartland Trail, Suite 3000  
 Madison, WI 53717  
 Phone: 608.826.3600  
 www.trcsolutions.com

FILE NO.: 298526-016mb.mxd



TRC - GIS  
 Coordinate System: NAD 1983 StatePlane Wisconsin North FIPS 4801 Feet (Foot US)  
 Map Rotation: 0  
 Plot Date: 5/8/2018 10:41:36 AM by RSUEMNICHT -- LAYOUT: ANSIB(11x17)  
 Path: E:\WI\_DOT\2018\_242567298526-016mb.mxd



**LEGEND**

- 1 TRC PROPERTY ID
- ▲ INDOOR AIR SAMPLE
- SUB-SLAB SAMPLE
- OUTDOOR SAMPLE
- ▬▬▬ APPROXIMATE LOCATION OF STAIRS
- ▭ APPROXIMATE BUILDING EXTENT
- ▨ APPROXIMATE LOWER LEVEL DIRT FLOOR
- ▩ APPROXIMATE LOWER LEVEL CONCRETE FLOOR
- ▭ APPROXIMATE PARCEL BOUNDARY

**WELL ID**

PCE MARCH 2018 INDOOR AIR SAMPLING RESULTS (µg/L)

TCE

- NOTES**
1. BASEMAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JULY 2015.
  2. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN-NORTH (US SURVEY FEET).
  3. ALL MAP FEATURE LOCATIONS AND SIZES ARE APPROXIMATE.
  4. AIR/VAPOR SAMPLING WAS COMPLETED BY TRC BETWEEN MARCH 21 & 23, 2018.



PROJECT: **WISDOT ID# 0656-50-31  
 FORMER NORTHWOODS LAUNDRY  
 MINOCQUA, ONEIDA COUNTY, WISCONSIN**

TITLE: **PROPERTY LAYOUT/RESULTS -  
 PROPERTY IDs 9 AND 10**

DRAWN BY: R. SUEMNICHT PROJ NO.: 298526

CHECKED BY: T. O'CONNELL

APPROVED BY: D. HAAK

DATE: MAY 2018

**FIGURE 5**

**TRC** 708 Heartland Trail, Suite 3000  
 Madison, WI 53717  
 Phone: 608.826.3600  
 www.trcsolutions.com

FILE NO.: 298526-016mb.mxd



TRC - GIS  
 Coordinate System: NAD 1983 StatePlane Wisconsin North FIPS 4801 Feet (Foot US)  
 Map Rotation: 0  
 Plot Date: 5/8/2018 10:41:36 AM by RSUEMNICHT -- LAYOUT: ANSI B(11"x17")  
 Path: E:\WI\_DOT\2018\_242567298526-016mb.mxd



**LEGEND**

- 1 TRC PROPERTY ID
- ▲ INDOOR AIR SAMPLE
- X SUB-SLAB SAMPLE
- APPROXIMATE LOCATION OF SUMP CROCK
- APPROXIMATE LOCATION OF STAIRS
- APPROXIMATE BUILDING EXTENT
- APPROXIMATE LOWER LEVEL CONCRETE FLOOR
- APPROXIMATE PARCEL BOUNDARY

WELL ID	MARCH 2018 INDOOR AIR SAMPLING RESULTS (µg/L)
PCE	
TCE	

- NOTES**
1. BASEMAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JULY 2015.
  2. MAP ROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN-NORTH (US SURVEY FEET).
  3. ALL MAP FEATURE LOCATIONS AND SIZES ARE APPROXIMATE.
  4. AIR/VAPOR SAMPLING WAS COMPLETED BY TRC BETWEEN MARCH 21 & 23, 2018.

0 20 40 Feet  
 1" = 20'  
 1:240

PROJECT: **WISDOT ID# 0656-50-31  
 FORMER NORTHWOODS LAUNDRY  
 MINOCQUA, ONEIDA COUNTY, WISCONSIN**

TITLE: **PROPERTY LAYOUT/RESULTS -  
 PROPERTY ID 11**

DRAWN BY: R. SUEMNICHT	PROJ NO.: 298526
CHECKED BY: T. O'CONNELL	<b>FIGURE 6</b>
APPROVED BY: D. HAAK	
DATE: MAY 2018	

**TRC**

708 Heartland Trail, Suite 3000  
 Madison, WI 53717  
 Phone: 608.826.3600  
 www.trcsolutions.com

FILE NO.: 298526-016mb.mxd



TRC - GIS  
 Coordinate System: NAD 1983 StatePlane Wisconsin North FIPS 4801 Feet (Foot US)  
 Map Rotation: 0  
 Plot Date: 5/8/2018 10:41:36 AM by RSUEMNICHT -- LAYOUT: ANSIB(11"x17")  
 Path: E:\WI\_DOT\2018\_242567\298526-016mb.mxd



**LEGEND**

- 1 TRC PROPERTY ID
- ▲ INDOOR AIR SAMPLE
- SUB-SLAB SAMPLE
- OUTDOOR SAMPLE
- APPROXIMATE BUILDING EXTENT
- APPROXIMATE PARCEL BOUNDARY

**WELL ID**

PCE	MARCH 2018 INDOOR AIR SAMPLING RESULTS (µg/L)
TCE	

- NOTES**
1. BASEMAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JULY 2015.
  2. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN-NORTH (US SURVEY FEET).
  3. ALL MAP FEATURE LOCATIONS AND SIZES ARE APPROXIMATE.
  4. AIR/VAPOR SAMPLING WAS COMPLETED BY TRC BETWEEN MARCH 21 & 23, 2018.
  5. BUILDING CONTAINS A SLAB CONSTRUCTED ON GRADE, NO LOWER LEVEL PRESENT.



<b>PROJECT:</b> WISDOT ID# 0656-50-31 FORMER NORTHWOODS LAUNDRY MINOCQUA, ONEIDA COUNTY, WISCONSIN	
<b>TITLE:</b> PROPERTY LAYOUT/RESULTS - PROPERTY ID 13	
DRAWN BY: R. SUEMNICHT CHECKED BY: T. O'CONNELL APPROVED BY: D. HAAK DATE: MAY 2018	PROJ NO.: 298526  <b>FIGURE 7</b>
<div style="display: inline-block; vertical-align: middle; font-size: small;">           708 Heartland Trail, Suite 3000            Madison, WI 53717            Phone: 608.826.3600            www.trcsolutions.com         </div>	
FILE NO.: 298526-016mb.mxd	



**Attachment 1**  
**Laboratory Analytical Results**

April 15, 2018

Andrew Stehn  
TRC  
708 Heartland Trail  
Madison, WI 53717

RE: Project: 298526 Northwoods/Wis DOT  
Pace Project No.: 10425179

Dear Andrew Stehn:

Enclosed are the analytical results for sample(s) received by the laboratory on March 28, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

*Carolynne Trout*

Carolynne Trout  
carolynne.trout@pacelabs.com  
1(612)607-6351  
Project Manager

Enclosures

cc: Dan Haak, TRC  
Theodore O'Connell, TRC  
Peggy Popp, TRC Solutions



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 298526 Northwoods/Wis DOT

Pace Project No.: 10425179

---

### Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

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 #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: MN00064

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 NwTPH 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

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 298526 Northwoods/Wis DOT  
Pace Project No.: 10425179

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10425179001	Outdoor - 1	Air	03/22/18 08:10	03/28/18 11:35
10425179002	321 - IA	Air	03/22/18 09:56	03/28/18 11:35
10425179003	313 - IA	Air	03/22/18 10:33	03/28/18 11:35
10425179004	315 - IA	Air	03/22/18 11:19	03/28/18 11:35
10425179005	317 - IA	Air	03/22/18 11:24	03/28/18 11:35
10425179006	301-307-IA-S	Air	03/22/18 13:58	03/28/18 11:35
10425179007	301-307-IA-C	Air	03/22/18 14:01	03/28/18 11:35
10425179008	329 - IA	Air	03/22/18 15:58	03/28/18 11:35
10425179009	515 - IA	Air	03/22/18 16:30	03/28/18 11:35
10425179010	Outdoor - 2	Air	03/23/18 07:33	03/28/18 11:35
10425179011	300 - IA	Air	03/23/18 07:32	03/28/18 11:35
10425179012	313 - SS	Air	03/22/18 12:38	03/28/18 11:35
10425179013	300 - SS	Air	03/23/18 09:56	03/28/18 11:35
10425179014	301-307-SS-1	Air	03/22/18 16:07	03/28/18 11:35
10425179015	301-307-SS-2	Air	03/22/18 16:22	03/28/18 11:35
10425179016	301-307-SS-3	Air	03/22/18 16:27	03/28/18 11:35
10425179017	315 - SS	Air	03/22/18 14:08	03/28/18 11:35
10425179018	317 - SS	Air	03/22/18 13:57	03/28/18 11:35
10425179019	329 - SS	Air	03/22/18 18:41	03/28/18 11:35
10425179020	405 - SS	Air	03/23/18 12:55	03/28/18 11:35
10425179021	321 - SS	Air	03/22/18 11:16	03/28/18 11:35
10425179022	515 - SS	Air	03/22/18 19:04	03/28/18 11:35
10425179023	527 - IA	Air	03/23/18 09:03	03/28/18 11:35
10425179024	527 - SS	Air	03/23/18 13:35	03/28/18 11:35
10425179025	DUP-01	Air		03/28/18 11:35
10425179026	Unused can # PACE1731	Air		03/28/18 11:35
10425179027	Unused can # PACE1246	Air		03/28/18 11:35
10425179028	Unused can # PACE2378	Air		03/28/18 11:35
10425179029	Unused can # PACE0533	Air		03/28/18 11:35

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 298526 Northwoods/Wis DOT

Pace Project No.: 10425179

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10425179001	Outdoor - 1	TO-15	MG2	5	PASI-M
10425179002	321 - IA	TO-15	MG2	5	PASI-M
10425179003	313 - IA	TO-15	MG2	5	PASI-M
10425179004	315 - IA	TO-15	MG2	5	PASI-M
10425179005	317 - IA	TO-15	MG2	5	PASI-M
10425179006	301-307-IA-S	TO-15	MG2	5	PASI-M
10425179007	301-307-IA-C	TO-15	MG2	5	PASI-M
10425179008	329 - IA	TO-15	MG2	5	PASI-M
10425179009	515 - IA	TO-15	MG2	5	PASI-M
10425179010	Outdoor - 2	TO-15	MG2	5	PASI-M
10425179011	300 - IA	TO-15	MG2	5	PASI-M
10425179012	313 - SS	TO-15	MG2	5	PASI-M
10425179013	300 - SS	TO-15	DR1	5	PASI-M
10425179014	301-307-SS-1	TO-15	MG2	5	PASI-M
10425179015	301-307-SS-2	TO-15	MG2	5	PASI-M
10425179016	301-307-SS-3	TO-15	MG2	5	PASI-M
10425179017	315 - SS	TO-15	MG2	5	PASI-M
10425179018	317 - SS	TO-15	MG2	5	PASI-M
10425179019	329 - SS	TO-15	MG2	5	PASI-M
10425179020	405 - SS	TO-15	DR1	5	PASI-M
10425179021	321 - SS	TO-15	MG2	5	PASI-M
10425179022	515 - SS	TO-15	MG2	5	PASI-M
10425179023	527 - IA	TO-15	DR1	5	PASI-M
10425179024	527 - SS	TO-15	DR1	5	PASI-M
10425179025	DUP-01	TO-15	DR1	5	PASI-M

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 298526 Northwoods/Wis DOT

Pace Project No.: 10425179

Sample: Outdoor - 1      Lab ID: 10425179001      Collected: 03/22/18 08:10      Received: 03/28/18 11:35      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR      Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.49	ug/m3	1.2	0.49	1.44		04/13/18 16:15	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.44		04/13/18 16:15	156-60-5	
Tetrachloroethene	16.7	ug/m3	0.99	0.41	1.44		04/13/18 16:15	127-18-4	
Trichloroethene	<0.39	ug/m3	0.79	0.39	1.44		04/13/18 16:15	79-01-6	
Vinyl chloride	<0.18	ug/m3	0.37	0.18	1.44		04/13/18 16:15	75-01-4	

Sample: 321 - IA      Lab ID: 10425179002      Collected: 03/22/18 09:56      Received: 03/28/18 11:35      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR      Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.51	ug/m3	1.2	0.51	1.49		04/13/18 23:10	156-59-2	
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.49		04/13/18 23:10	156-60-5	
Tetrachloroethene	<0.43	ug/m3	1.0	0.43	1.49		04/13/18 23:10	127-18-4	
Trichloroethene	<0.40	ug/m3	0.81	0.40	1.49		04/13/18 23:10	79-01-6	
Vinyl chloride	<0.19	ug/m3	0.39	0.19	1.49		04/13/18 23:10	75-01-4	

Sample: 313 - IA      Lab ID: 10425179003      Collected: 03/22/18 10:33      Received: 03/28/18 11:35      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR      Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.53	ug/m3	1.2	0.53	1.55		04/14/18 01:27	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/m3	1.2	0.46	1.55		04/14/18 01:27	156-60-5	
Tetrachloroethene	0.93J	ug/m3	1.1	0.44	1.55		04/14/18 01:27	127-18-4	
Trichloroethene	<0.42	ug/m3	0.85	0.42	1.55		04/14/18 01:27	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		04/14/18 01:27	75-01-4	

Sample: 315 - IA      Lab ID: 10425179004      Collected: 03/22/18 11:19      Received: 03/28/18 11:35      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR      Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.51	ug/m3	1.2	0.51	1.49		04/13/18 22:36	156-59-2	
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.49		04/13/18 22:36	156-60-5	
Tetrachloroethene	<0.43	ug/m3	1.0	0.43	1.49		04/13/18 22:36	127-18-4	
Trichloroethene	<0.40	ug/m3	0.81	0.40	1.49		04/13/18 22:36	79-01-6	
Vinyl chloride	<0.19	ug/m3	0.39	0.19	1.49		04/13/18 22:36	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 298526 Northwoods/Wis DOT

Pace Project No.: 10425179

Sample: 317 - IA      Lab ID: 10425179005      Collected: 03/22/18 11:24      Received: 03/28/18 11:35      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR      Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.49	ug/m3	1.2	0.49	1.44		04/13/18 18:01	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.44		04/13/18 18:01	156-60-5	
Tetrachloroethene	0.48J	ug/m3	0.99	0.41	1.44		04/13/18 18:01	127-18-4	
Trichloroethene	<0.39	ug/m3	0.79	0.39	1.44		04/13/18 18:01	79-01-6	
Vinyl chloride	<0.18	ug/m3	0.37	0.18	1.44		04/13/18 18:01	75-01-4	

Sample: 301-307-IA-S      Lab ID: 10425179006      Collected: 03/22/18 13:58      Received: 03/28/18 11:35      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR      Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.67	ug/m3	1.6	0.67	1.96		04/14/18 03:10	156-59-2	
trans-1,2-Dichloroethene	<0.58	ug/m3	1.6	0.58	1.96		04/14/18 03:10	156-60-5	
Tetrachloroethene	1.4	ug/m3	1.4	0.56	1.96		04/14/18 03:10	127-18-4	
Trichloroethene	<0.53	ug/m3	1.1	0.53	1.96		04/14/18 03:10	79-01-6	
Vinyl chloride	<0.25	ug/m3	0.51	0.25	1.96		04/14/18 03:10	75-01-4	

Sample: 301-307-IA-C      Lab ID: 10425179007      Collected: 03/22/18 14:01      Received: 03/28/18 11:35      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR      Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.51	ug/m3	1.2	0.51	1.49		04/14/18 00:53	156-59-2	
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.49		04/14/18 00:53	156-60-5	
Tetrachloroethene	1.9	ug/m3	1.0	0.43	1.49		04/14/18 00:53	127-18-4	
Trichloroethene	<0.40	ug/m3	0.81	0.40	1.49		04/14/18 00:53	79-01-6	
Vinyl chloride	<0.19	ug/m3	0.39	0.19	1.49		04/14/18 00:53	75-01-4	

Sample: 329 - IA      Lab ID: 10425179008      Collected: 03/22/18 15:58      Received: 03/28/18 11:35      Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR      Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.47	ug/m3	1.1	0.47	1.39		04/13/18 18:36	156-59-2	
trans-1,2-Dichloroethene	<0.41	ug/m3	1.1	0.41	1.39		04/13/18 18:36	156-60-5	
Tetrachloroethene	0.47J	ug/m3	0.96	0.40	1.39		04/13/18 18:36	127-18-4	
Trichloroethene	<0.37	ug/m3	0.76	0.37	1.39		04/13/18 18:36	79-01-6	
Vinyl chloride	<0.18	ug/m3	0.36	0.18	1.39		04/13/18 18:36	75-01-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 298526 Northwoods/Wis DOT

Pace Project No.: 10425179

<b>Sample: 515 - IA</b>									
		<b>Lab ID: 10425179009</b>	Collected: 03/22/18 16:30			Received: 03/28/18 11:35		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.48	ug/m3	1.1	0.48	1.41		04/14/18 00:19	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.1	0.42	1.41		04/14/18 00:19	156-60-5	
Tetrachloroethene	<0.40	ug/m3	0.97	0.40	1.41		04/14/18 00:19	127-18-4	
Trichloroethene	<0.38	ug/m3	0.77	0.38	1.41		04/14/18 00:19	79-01-6	
Vinyl chloride	<0.18	ug/m3	0.37	0.18	1.41		04/14/18 00:19	75-01-4	

<b>Sample: Outdoor - 2</b>									
		<b>Lab ID: 10425179010</b>	Collected: 03/23/18 07:33			Received: 03/28/18 11:35		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.51	ug/m3	1.2	0.51	1.49		04/13/18 21:27	156-59-2	
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.49		04/13/18 21:27	156-60-5	
Tetrachloroethene	<0.43	ug/m3	1.0	0.43	1.49		04/13/18 21:27	127-18-4	
Trichloroethene	<0.40	ug/m3	0.81	0.40	1.49		04/13/18 21:27	79-01-6	
Vinyl chloride	<0.19	ug/m3	0.39	0.19	1.49		04/13/18 21:27	75-01-4	

<b>Sample: 300 - IA</b>									
		<b>Lab ID: 10425179011</b>	Collected: 03/23/18 07:32			Received: 03/28/18 11:35		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.50	ug/m3	1.2	0.50	1.46		04/13/18 17:27	156-59-2	
trans-1,2-Dichloroethene	<0.43	ug/m3	1.2	0.43	1.46		04/13/18 17:27	156-60-5	
Tetrachloroethene	<0.42	ug/m3	1.0	0.42	1.46		04/13/18 17:27	127-18-4	
Trichloroethene	<0.39	ug/m3	0.80	0.39	1.46		04/13/18 17:27	79-01-6	
Vinyl chloride	<0.18	ug/m3	0.38	0.18	1.46		04/13/18 17:27	75-01-4	

<b>Sample: 313 - SS</b>									
		<b>Lab ID: 10425179012</b>	Collected: 03/22/18 12:38			Received: 03/28/18 11:35		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.55	ug/m3	1.3	0.55	1.61		04/13/18 23:45	156-59-2	
trans-1,2-Dichloroethene	<0.47	ug/m3	1.3	0.47	1.61		04/13/18 23:45	156-60-5	
Tetrachloroethene	2.4	ug/m3	1.1	0.46	1.61		04/13/18 23:45	127-18-4	
Trichloroethene	<0.43	ug/m3	0.88	0.43	1.61		04/13/18 23:45	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.42	0.20	1.61		04/13/18 23:45	75-01-4	

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### ANALYTICAL RESULTS

Project: 298526 Northwoods/Wis DOT

Pace Project No.: 10425179

<b>Sample: 300 - SS</b>									
		<b>Lab ID: 10425179013</b>		Collected: 03/23/18 09:56		Received: 03/28/18 11:35		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.53	ug/m3	1.2	0.53	1.55		04/12/18 14:43	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/m3	1.2	0.46	1.55		04/12/18 14:43	156-60-5	
Tetrachloroethene	<0.44	ug/m3	1.1	0.44	1.55		04/12/18 14:43	127-18-4	
Trichloroethene	<0.42	ug/m3	0.85	0.42	1.55		04/12/18 14:43	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		04/12/18 14:43	75-01-4	

<b>Sample: 301-307-SS-1</b>									
		<b>Lab ID: 10425179014</b>		Collected: 03/22/18 16:07		Received: 03/28/18 11:35		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.55	ug/m3	1.3	0.55	1.61		04/13/18 19:10	156-59-2	
trans-1,2-Dichloroethene	<0.47	ug/m3	1.3	0.47	1.61		04/13/18 19:10	156-60-5	
Tetrachloroethene	4.2	ug/m3	1.1	0.46	1.61		04/13/18 19:10	127-18-4	
Trichloroethene	<0.43	ug/m3	0.88	0.43	1.61		04/13/18 19:10	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.42	0.20	1.61		04/13/18 19:10	75-01-4	

<b>Sample: 301-307-SS-2</b>									
		<b>Lab ID: 10425179015</b>		Collected: 03/22/18 16:22		Received: 03/28/18 11:35		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	2.1	ug/m3	1.7	0.72	2.12		04/14/18 02:36	156-59-2	IS
trans-1,2-Dichloroethene	1.8	ug/m3	1.7	0.63	2.12		04/14/18 02:36	156-60-5	IS
Tetrachloroethene	10.9	ug/m3	1.5	0.61	2.12		04/14/18 02:36	127-18-4	
Trichloroethene	3.4	ug/m3	1.2	0.57	2.12		04/14/18 02:36	79-01-6	IS
Vinyl chloride	1.8	ug/m3	0.55	0.27	2.12		04/14/18 02:36	75-01-4	IS

<b>Sample: 301-307-SS-3</b>									
		<b>Lab ID: 10425179016</b>		Collected: 03/22/18 16:27		Received: 03/28/18 11:35		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.77	ug/m3	1.8	0.77	2.25		04/14/18 02:01	156-59-2	
trans-1,2-Dichloroethene	<0.66	ug/m3	1.8	0.66	2.25		04/14/18 02:01	156-60-5	
Tetrachloroethene	308	ug/m3	1.6	0.65	2.25		04/14/18 02:01	127-18-4	
Trichloroethene	<0.60	ug/m3	1.2	0.60	2.25		04/14/18 02:01	79-01-6	
Vinyl chloride	<0.28	ug/m3	0.58	0.28	2.25		04/14/18 02:01	75-01-4	

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### ANALYTICAL RESULTS

Project: 298526 Northwoods/Wis DOT

Pace Project No.: 10425179

Sample: 315 - SS									
		Lab ID: 10425179017	Collected: 03/22/18 14:08	Received: 03/28/18 11:35	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.54	ug/m3	1.3	0.54	1.58		04/13/18 20:52	156-59-2	
trans-1,2-Dichloroethene	<0.47	ug/m3	1.3	0.47	1.58		04/13/18 20:52	156-60-5	
Tetrachloroethene	2.7	ug/m3	1.1	0.45	1.58		04/13/18 20:52	127-18-4	
Trichloroethene	<0.42	ug/m3	0.86	0.42	1.58		04/13/18 20:52	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.41	0.20	1.58		04/13/18 20:52	75-01-4	

Sample: 317 - SS									
		Lab ID: 10425179018	Collected: 03/22/18 13:57	Received: 03/28/18 11:35	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.62	ug/m3	1.5	0.62	1.83		04/13/18 15:05	156-59-2	
trans-1,2-Dichloroethene	<0.54	ug/m3	1.5	0.54	1.83		04/13/18 15:05	156-60-5	
Tetrachloroethene	41.9	ug/m3	1.3	0.53	1.83		04/13/18 15:05	127-18-4	
Trichloroethene	<0.49	ug/m3	1.0	0.49	1.83		04/13/18 15:05	79-01-6	
Vinyl chloride	<0.23	ug/m3	0.48	0.23	1.83		04/13/18 15:05	75-01-4	

Sample: 329 - SS									
		Lab ID: 10425179019	Collected: 03/22/18 18:41	Received: 03/28/18 11:35	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.53	ug/m3	1.2	0.53	1.55		04/13/18 22:01	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/m3	1.2	0.46	1.55		04/13/18 22:01	156-60-5	
Tetrachloroethene	11.2	ug/m3	1.1	0.44	1.55		04/13/18 22:01	127-18-4	
Trichloroethene	<0.42	ug/m3	0.85	0.42	1.55		04/13/18 22:01	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		04/13/18 22:01	75-01-4	

Sample: 405 - SS									
		Lab ID: 10425179020	Collected: 03/23/18 12:55	Received: 03/28/18 11:35	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.54	ug/m3	1.3	0.54	1.58		04/12/18 15:23	156-59-2	
trans-1,2-Dichloroethene	<0.47	ug/m3	1.3	0.47	1.58		04/12/18 15:23	156-60-5	
Tetrachloroethene	15.5	ug/m3	1.1	0.45	1.58		04/12/18 15:23	127-18-4	
Trichloroethene	<0.42	ug/m3	0.86	0.42	1.58		04/12/18 15:23	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.41	0.20	1.58		04/12/18 15:23	75-01-4	

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### ANALYTICAL RESULTS

Project: 298526 Northwoods/Wis DOT

Pace Project No.: 10425179

<b>Sample: 321 - SS</b>									
		<b>Lab ID: 10425179021</b>	Collected: 03/22/18 11:16			Received: 03/28/18 11:35		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.55	ug/m3	1.3	0.55	1.61		04/13/18 20:18	156-59-2	
trans-1,2-Dichloroethene	<0.47	ug/m3	1.3	0.47	1.61		04/13/18 20:18	156-60-5	
Tetrachloroethene	8.5	ug/m3	1.1	0.46	1.61		04/13/18 20:18	127-18-4	
Trichloroethene	<0.43	ug/m3	0.88	0.43	1.61		04/13/18 20:18	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.42	0.20	1.61		04/13/18 20:18	75-01-4	

<b>Sample: 515 - SS</b>									
		<b>Lab ID: 10425179022</b>	Collected: 03/22/18 19:04			Received: 03/28/18 11:35		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.57	ug/m3	1.4	0.57	1.68		04/13/18 19:44	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/m3	1.4	0.50	1.68		04/13/18 19:44	156-60-5	
Tetrachloroethene	<0.48	ug/m3	1.2	0.48	1.68		04/13/18 19:44	127-18-4	
Trichloroethene	<0.45	ug/m3	0.92	0.45	1.68		04/13/18 19:44	79-01-6	
Vinyl chloride	<0.21	ug/m3	0.44	0.21	1.68		04/13/18 19:44	75-01-4	

<b>Sample: 527 - IA</b>									
		<b>Lab ID: 10425179023</b>	Collected: 03/23/18 09:03			Received: 03/28/18 11:35		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.53	ug/m3	1.2	0.53	1.55		04/12/18 16:43	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/m3	1.2	0.46	1.55		04/12/18 16:43	156-60-5	
Tetrachloroethene	0.55J	ug/m3	1.1	0.44	1.55		04/12/18 16:43	127-18-4	
Trichloroethene	<0.42	ug/m3	0.85	0.42	1.55		04/12/18 16:43	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		04/12/18 16:43	75-01-4	

<b>Sample: 527 - SS</b>									
		<b>Lab ID: 10425179024</b>	Collected: 03/23/18 13:35			Received: 03/28/18 11:35		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.55	ug/m3	1.3	0.55	1.61		04/12/18 17:23	156-59-2	
trans-1,2-Dichloroethene	<0.47	ug/m3	1.3	0.47	1.61		04/12/18 17:23	156-60-5	
Tetrachloroethene	9.6	ug/m3	1.1	0.46	1.61		04/12/18 17:23	127-18-4	
Trichloroethene	<0.43	ug/m3	0.88	0.43	1.61		04/12/18 17:23	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.42	0.20	1.61		04/12/18 17:23	75-01-4	

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### ANALYTICAL RESULTS

Project: 298526 Northwoods/Wis DOT

Pace Project No.: 10425179

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**Sample: DUP-01**      **Lab ID: 10425179025**      Collected:      Received: 03/28/18 11:35      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
cis-1,2-Dichloroethene	<0.53	ug/m3	1.2	0.53	1.55		04/12/18 16:03	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/m3	1.2	0.46	1.55		04/12/18 16:03	156-60-5	
Tetrachloroethene	<0.44	ug/m3	1.1	0.44	1.55		04/12/18 16:03	127-18-4	
Trichloroethene	<0.42	ug/m3	0.85	0.42	1.55		04/12/18 16:03	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		04/12/18 16:03	75-01-4	

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### QUALITY CONTROL DATA

Project: 298526 Northwoods/Wis DOT  
Pace Project No.: 10425179

QC Batch: 532049 Analysis Method: TO-15  
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level  
Associated Lab Samples: 10425179013, 10425179020, 10425179023, 10425179024, 10425179025

METHOD BLANK: 2889151 Matrix: Air  
Associated Lab Samples: 10425179013, 10425179020, 10425179023, 10425179024, 10425179025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.34	0.81	04/12/18 11:27	
Tetrachloroethene	ug/m3	<0.29	0.69	04/12/18 11:27	
trans-1,2-Dichloroethene	ug/m3	<0.30	0.81	04/12/18 11:27	
Trichloroethene	ug/m3	<0.27	0.55	04/12/18 11:27	
Vinyl chloride	ug/m3	<0.13	0.26	04/12/18 11:27	

LABORATORY CONTROL SAMPLE: 2889152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	40.8	101	70-136	
Tetrachloroethene	ug/m3	68.9	73.7	107	70-133	
trans-1,2-Dichloroethene	ug/m3	40.3	41.4	103	70-132	
Trichloroethene	ug/m3	54.6	57.5	105	70-135	
Vinyl chloride	ug/m3	26	27.0	104	70-141	

SAMPLE DUPLICATE: 2889574

Parameter	Units	10425034001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.48		25	
Tetrachloroethene	ug/m3	ND	<0.40		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.42		25	
Trichloroethene	ug/m3	ND	<0.38		25	
Vinyl chloride	ug/m3	ND	<0.18		25	

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**QUALITY CONTROL DATA**

Project: 298526 Northwoods/Wis DOT

Pace Project No.: 10425179

QC Batch: 532051 Analysis Method: TO-15  
 QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level  
 Associated Lab Samples: 10425179001, 10425179002, 10425179003, 10425179004, 10425179005, 10425179006, 10425179007, 10425179008, 10425179009, 10425179010, 10425179011, 10425179012, 10425179014, 10425179015, 10425179016, 10425179017, 10425179018, 10425179019, 10425179021, 10425179022

METHOD BLANK: 2889155 Matrix: Air  
 Associated Lab Samples: 10425179001, 10425179002, 10425179003, 10425179004, 10425179005, 10425179006, 10425179007, 10425179008, 10425179009, 10425179010, 10425179011, 10425179012, 10425179014, 10425179015, 10425179016, 10425179017, 10425179018, 10425179019, 10425179021, 10425179022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.34	0.81	04/13/18 14:22	
Tetrachloroethene	ug/m3	<0.29	0.69	04/13/18 14:22	
trans-1,2-Dichloroethene	ug/m3	<0.30	0.81	04/13/18 14:22	
Trichloroethene	ug/m3	<0.27	0.55	04/13/18 14:22	
Vinyl chloride	ug/m3	<0.13	0.26	04/13/18 14:22	

LABORATORY CONTROL SAMPLE: 2889156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	42.7	39.8	93	70-136	
Tetrachloroethene	ug/m3	73.8	63.8	86	70-133	
trans-1,2-Dichloroethene	ug/m3	36.3	35.1	97	70-132	
Trichloroethene	ug/m3	58.4	58.9	101	70-135	
Vinyl chloride	ug/m3	25.7	23.8	93	70-141	

SAMPLE DUPLICATE: 2891441

Parameter	Units	10425179018 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.62	<0.62		25	
Tetrachloroethene	ug/m3	41.9	42.7	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.54	<0.54		25	
Trichloroethene	ug/m3	<0.49	<0.49		25	
Vinyl chloride	ug/m3	<0.23	<0.23		25	

SAMPLE DUPLICATE: 2891442

Parameter	Units	10425179001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.49	<0.49		25	
Tetrachloroethene	ug/m3	16.7	17.0	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.42	<0.42		25	
Trichloroethene	ug/m3	<0.39	<0.39		25	
Vinyl chloride	ug/m3	<0.18	<0.18		25	

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## QUALIFIERS

Project: 298526 Northwoods/Wis DOT

Pace Project No.: 10425179

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### 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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

IS The internal standard response is below criteria. Results may be biased high.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 298526 Northwoods/Wis DOT

Pace Project No.: 10425179

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10425179001	Outdoor - 1	TO-15	532051		
10425179002	321 - IA	TO-15	532051		
10425179003	313 - IA	TO-15	532051		
10425179004	315 - IA	TO-15	532051		
10425179005	317 - IA	TO-15	532051		
10425179006	301-307-IA-S	TO-15	532051		
10425179007	301-307-IA-C	TO-15	532051		
10425179008	329 - IA	TO-15	532051		
10425179009	515 - IA	TO-15	532051		
10425179010	Outdoor - 2	TO-15	532051		
10425179011	300 - IA	TO-15	532051		
10425179012	313 - SS	TO-15	532051		
10425179013	300 - SS	TO-15	532049		
10425179014	301-307-SS-1	TO-15	532051		
10425179015	301-307-SS-2	TO-15	532051		
10425179016	301-307-SS-3	TO-15	532051		
10425179017	315 - SS	TO-15	532051		
10425179018	317 - SS	TO-15	532051		
10425179019	329 - SS	TO-15	532051		
10425179020	405 - SS	TO-15	532049		
10425179021	321 - SS	TO-15	532051		
10425179022	515 - SS	TO-15	532051		
10425179023	527 - IA	TO-15	532049		
10425179024	527 - SS	TO-15	532049		
10425179025	DUP-01	TO-15	532049		

## REPORT OF LABORATORY ANALYSIS

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

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10425179

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	<b>31918</b>
Company: <b>TRC</b>	Report To: <b>ANDREW STEHW</b>	Attention: <b>Theodore O'Connell</b>	Page: <b>1</b> of <b>3</b>
Address: <b>708 HEARTLAND TRL</b>	Copy To: <b>Theodore O'Connell</b>	Company Name: <b>TRC</b>	Program
<b>Suite 3000, Madison WI 53717</b>	<b>toconnell@trcsolutions.com</b>	Address: <b>Same as Section A</b>	<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act
Email To: <b>a.stehn@trcsolutions.com</b>	Purchase Order No.: <b>120030</b>	Pace Quote Reference:	<input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other
Phone: <b>608-826-3665</b> Fax:	Project Name: <b>Northwoods/Wildcat</b>	Pace Project Manager/Sales Rep.	Location of Sampling by State: <b>WI</b>
Requested Due Date/TAT: <b>STANDARD</b>	Project Number: <b>298526</b>	Pace Profile #: <b>38609</b>	Reporting Units ug/m <sup>3</sup> ___ mg/m <sup>3</sup> ___ PPBV ___ PPMV ___ Other ___
			Report Level: <b>II</b> , <b>III</b> , <b>IV</b> , Other ___

ITEM #	'Section D Required Client Information <b>AIR SAMPLE ID</b> 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 Other PM10	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	See Comments								
					COMPOSITE START		COMPOSITE - END/GRAB									PM10	3C - Fixed Gas (%)	TO-2 BTEX	TO-9/11 (Merchane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chromatogram
					DATE	TIME	DATE	TIME															
1	Outdoor - 1		6LC		3/21/18	0930	3/22/18	0910	-25	-1.5	3 4 2 7	FC03 5 0		X	001								
2	321 - IA				3/21/18	0956	3/22/18	0956	-30	-4	2 3 4 0	FC05 3 3			002								
3	313 - IA					1033	3/22/18	1033	-30	-5	0 7 0 2	FC13 7 3			003								
4	315 - IA					1119	3/22/18	1119	-30	-5	1 0 8 8	FC10 6 1			004								
5	317 - IA					1124	3/22/18	1124	-27.5	-3	2 0 8 9	FC04 5 2			005								
6	301 - 309 - IA - S					1358	3/22/18	1358	-28	-4	0 6 3 0	FC03 1 5			006								
7	301 - 307 - IA - C					1401	3/22/18	1401	-29	-3	2 7 0 9	FC14 5 4			007								
8	329 - IA					1601	3/22/18	1558	-27	-2	2 1 4 5	FC14 2 1			008								
9	515 - IA					1631	3/22/18	1630	-30	-6	2 3 1 0	FC15 0 2			009								
10	Outdoor - 2				3/22/18	0733	3/23/18	0733	-28	-3	0 7 1 8	FC02 7 7			010								
11	300 - IA					0749	3/23/18	0732	-25.5	-2	2 1 5 4	FC07 6 7			011								
12	<del>TR-300-SS</del> 313-SS					1203	3/22/18	1233	-30	-7	0 6 8 0	FC20 0 5			012								

Comments : Samples should be analyzed for PCE, TCE, Cis-1,2 DCE, VC, <del>trans</del> <del>1,2 DEC trans</del> - 1,2 DCE ORIGINAL	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	<b>Z-R-TRC</b>	<b>3/21/18</b>	<b>1200</b>	<b>W. Perkins</b>	<b>3/28/18</b>	<b>1135</b>	-	<input checked="" type="checkbox"/> Y/N	<input checked="" type="checkbox"/> Y/N	<input checked="" type="checkbox"/> Y/N	<input checked="" type="checkbox"/> Y/N
								<input type="checkbox"/> Y/N	<input type="checkbox"/> Y/N	<input type="checkbox"/> Y/N	<input type="checkbox"/> Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice	Custody Sealed Cooler	Samples intact
PRINT Name of SAMPLER: <b>ANDREW STEHW / Tom W. Perkins</b>	DATE Signed (MM / DD / YY) <b>3/27/18</b>				
SIGNATURE of SAMPLER: <i>Andrew Stehw</i>					

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

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Program	
Company: <b>TRC</b>		Report To: <b>ANDREW STEHN</b>		Attention: <b>THEODORE O'CONNELL</b>		<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
Address: <b>708 HERTLAND TRL</b>		Copy To: <b>THEODORE O'CONNELL</b>		Company Name: <b>TRC</b>		Location of Sampling by State: <b>WI</b>	
Address: <b>SUITE 300, MADISON, WI 53717</b>		Email To: <b>toconnell@trcsolutions.com</b>		Address: <b>SAME AS SECTION A</b>		Reporting Units ug/m <sup>3</sup> _____ mg/m <sup>3</sup> _____ PPBV _____ PPMV _____ Other _____	
Phone: <b>608-826-345</b> Fax: _____		Purchase Order No.: <b>120030</b>		Pace Quote Reference:		Report Level: <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> Other _____	
Requested Due Date/TAT: _____		Project Name: <b>Northwoods / WisDOT</b>		Pace Project Manager/Sales Rep.:		Method: <input type="checkbox"/> PM10 <input type="checkbox"/> 3C - Fixed Gas (Pg) <input type="checkbox"/> TO-3 BTX <input type="checkbox"/> TO-3M (Methane) <input type="checkbox"/> TO-14 <input type="checkbox"/> TO-15 Full List VOCs <input type="checkbox"/> TO-15 Short List BTX <input type="checkbox"/> TO-15 Short List Chlorinated	
		Project Number: <b>298526</b>		Pace Profile #: <b>38608</b>		Comments: <b>SEE COMMENTS</b> Face Lab ID	

ITEM #	'Section D Required Client Information <b>AIR SAMPLE ID</b> Sample IDs MUST BE UNIQUE	Valid Media Codes 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:							Face Lab ID	
				COMPOSITE START		COMPOSITE - ENDGRAB						PM10	3C - Fixed Gas (Pg)	TO-3 BTX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTX		TO-15 Short List Chlorinated
				DATE	TIME	DATE	TIME													
1	300-SS	6LL		3/23/18	0844	3/23/18	0956	-28	-6	0226	FC0923								013	
2	301-307-SS-1			3/23/18	1531	3/23/18	1607	-28	-6	0542	FC0896								014	
3	301-307-SS-2			3/23/18	1545	3/23/18	1622	-29	-5.5	0568	FC0642								015	
4	301-307-SS-3			3/23/18	1554	3/23/18	1627	-27	-6	1545	FC2838								016	
5	315-SS			3/22/18	1331	3/22/18	1408	-30	-6	0109	FC0969								017	
6	317-SS			3/22/18	1327	3/22/18	1357	-28	-8	0656	FC2834								018	
7	329-SS			3/22/18	1805	3/22/18	1841	-28.5	-6	1516	FC2847								019	
8	MP 329-SS 405-SS			3/23/18	1219	3/23/18	1255	-29	-6	1185	FC0902								020	
9	MP 405-SS 321-SS			3/22/18	1640	3/22/18	1116	-29	-6	0430	FC1603								021	
10	515-SS			3/22/18	1832	3/22/18	1904	-28	-6	0164	FC0840								022	
11	527-1A			3/22/18	0903	3/23/18	0903	-30	-4	2842	FC0164								023	
12	527-SS			3/23/18	1300	3/23/18	1335	-28	-5	3396	FC0913								024	

Comments:  
 SAMPLES SHOULD BE ANALYZED FOR PLE, TCE, CIS-1,2 DCE, VC, TRANS-1,2 DCE

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<i>TRC</i>	3/23/18	1200	<i>TRC</i>	3-23-18	1135	-	Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER: <b>ANDREW STEHN / Tom m. Perkins</b>					
SIGNATURE of SAMPLER: <i>Andrew Stehn</i>					
DATE Signed (MM/DD/YY) <b>3/27/18</b>					

ORIGINAL



# AIR: CHAIN-OF-CUSTODY

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WO#: 10425179



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<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	<b>Program</b> <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other
Company: <b>TRC</b>	Report To: <b>ANDREW STEHN</b>	Attention: <b>THEODORE O'CONNELL</b>	
Address: <b>708 HEARTLAND TRL</b>	Copy To: <b>THEODORE O'CONNELL</b>	Company Name: <b>TRC</b>	
<b>SUITE 3000, MADISON, WI 53717</b>	<b>f.oconnell@trcsolutions.com</b>	Address: <b>SAME AS SECTION A</b>	
Email To: <b>astehn@trcsolutions.com</b>	Purchase Order No.: <b>120030</b>	Pace Quote Reference:	<b>Location of Sampling by State</b> <b>WI</b> Reporting Units ug/m <sup>3</sup> _____ mg/m <sup>3</sup> _____ PPBV _____ PPMV _____ Other _____
Phone: <b>608-826-3665</b> Fax:	Project Name: <b>Northwoods/WisDOT</b>	Pace Project Manager/Sales Rep.	
Requested Due Date/TAT:	Project Number: <b>298526</b>	Pace Profile #: <b>38608</b>	<b>Report Level</b> II. _____ III. _____ IV. _____ Other _____

ITEM #	'Section D Required Client Information <b>AIR SAMPLE ID</b> Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE	Tecliar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	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: <input type="checkbox"/> PM10 <input type="checkbox"/> 3C - Fixed Gas (%) <input type="checkbox"/> TO-3 BTEX <input type="checkbox"/> TO-3M (Methane) <input type="checkbox"/> TO-14 <input type="checkbox"/> TO-15 Full List VOCs <input type="checkbox"/> TO-15 Short List BTEX <input type="checkbox"/> TO-15 Short List Chlorinated	Pace Lab ID
						COMPOSITE START		COMPOSITE - END/GRAB							
						DATE	TIME	DATE	TIME						
1	DUP-01	6LC				-	-	-	-	-30	-6	1184		X	025
2															
3	DO NOT ANALYZE											1731	FL1579		026
4	DO NOT ANALYZE											1246	FL0744		027
5	DO NOT ANALYZE											2378	FL0759		028
6	DO NOT ANALYZE											0533	FL0332		029
7															
8															
9															
10															
11															
12															

Comments:

DUP-01 SAMPLE SHOULD BE ANALYZED FOR PCE, TCE, CIS-1,2 DCE, VC, TRAS-1,2 DCE.

ITEM #3: DO NOT ANALYZE. WATER ENTERED SAMPLE TRAIL DURING COLLECTION.

ITEM #4: DO NOT ANALYZE. INITIAL VAL @ -22 inHg. COULD NOT USE ORIGINAL

ITEM #5: DO NOT ANALYZE. MISSING PEN. COULD NOT USE.

ITEM #6: DO NOT ANALYZE. BAD SEAL. COULD NOT USE.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<i>A.R. / TRC</i>	3/27/18	1200	<i>W.P. / TRC</i>	3-28-18	1135	-	Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER: <b>ANDREW STEHN / Tom W Perkins</b>	SIGNATURE of SAMPLER: <i>Andrew Stehn</i>				
DATE Signed (MM/DD/YY) 3/27/18					

**Air Sample Condition Upon Receipt**

Client Name: TRC

Project #:

**WO#: 10425179**

PM: MEM1

Due Date: 04/11/18

CLIENT: TRC-WI

Courier:  Fed Ex  UPS  Speedee  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Tracking Number: 7476 3006 1373/1362/1340/1318/1351/370/1329/1384

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

Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

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

Temp. (TO17 and TO13 samples only) (°C): X      Corrected Temp (°C): X      Thermom. Used:  151401163

Temp should be above freezing to 6°C      Correction Factor: X      Date & Initials of Person Examining Contents:  G87A9155100842  
3-28-18-14

Type of ice Received  Blue  Wet  None

				Comments:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag      Filter      TDT      Passive				11. Individually Certified Cans    Y <input checked="" type="checkbox"/> (list which samples)
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.

Samples Received: <u>IT-F: Hmg</u>					Pressure Gauge # 10AIR26				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
1			-2	+5	10			-3	+5
2			-3	"	11			-2.5	"
3			-4	"	12			-5	"
4			-3	"	13			-4	"
5			-2	"	14			-5	"
6			-2.5	"	15			-4.5	"
7			-7	"	16			-6	"
8			-1	"	17			-4.5	"
9			-1.5	"	18			-8	"

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: Megan McCalve

Date: 3/29/18

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 hold, incorrect preservative, out of temp, incorrect containers)

**Air Sample Condition Upon Receipt**

**Client Name:** \_\_\_\_\_

**Project #:** \_\_\_\_\_

1042579

**Courier:**  Fed Ex  UPS  Speedee  Client  
 Commercial  Pace  Other: \_\_\_\_\_

**Tracking Number:** \_\_\_\_\_

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

**Optional:** Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

**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):** \_\_\_\_\_ **Thermom. Used:**  151401163  
 G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** \_\_\_\_\_ **Date & Initials of Person Examining Contents:** \_\_\_\_\_

**Type of ice Received**  Blue  Wet  None

**Comments:**

Chain of Custody Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: Air Can Airbag Filter TDT Passive		11. Individually Certified Cans Y N (list which samples)
Sample Labels Match COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received:					Pressure Gauge # 10AIR26				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
19			-4	+5	unused can			-20	—
20			-4.5	"	"			-28.5	—
21			-5	"					
22			-6	"					
23			-4	"					
24			-5	"					
25			-4	"					
unused can			-26	—					
"			-18	—					

**CLIENT NOTIFICATION/RESOLUTION**

**Field Data Required?**  Yes  No

**Person Contacted:** \_\_\_\_\_ **Date/Time:** \_\_\_\_\_

**Comments/Resolution:** \_\_\_\_\_

**Project Manager Review:** Megan McCalve **Date:** 3/29/18

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 hold, incorrect preservative, out of temp, incorrect containers)