



Moraine Environmental, Inc.

Design • Engineer • Construct

September 13, 2017

Proj. Ref. #5613

Adam McIlheran
WDNR – Southeast Region
2300 N Dr. Martin Luther King Jr Dr.
Milwaukee, WI 53212

RE: Status Report
Riemer's Flowers (Former Dry Cleaner)
136 N. Main Street, Thiensville, Wisconsin
BRRTS #02-46-560053

Dear Adam:

Moraine Environmental, Inc. (Moraine) has completed the additional work scope as discussed in our April 11-12, 2017 email correspondences. It was determined at that time should the data warrant, we may be able to pursue presentation of a case closure request after the scope of work was completed.

GROUNDWATER

One round of groundwater monitoring was performed on June 29, 2017. Groundwater from monitoring wells MW-1, MW-2, and MW-3, and small diameter wells TW-13 and TW-14 were analyzed for VOCs. The property owner said that although the well head for the on-site potable well on the east side of the building yet remains, it was not connected and the building is on municipal water supply. As such a potable well sample could not be obtained.

The June 2017 sampling resulted in no groundwater VOC detections at MW-1, MW-3, and TW-14 at levels in excess of any respective preventive action limits (PALs). At MW-2, PAL exceedances of tetrachloroethene (PCE) and trichloroethene (TCE) were present at 1.6 ug/L and 0.89 J ug/l, respectively. The vinyl chloride level at MW-2 was 0.29 J ug/L, in excess of its enforcement standard (ES) of 0.2 ug/L. The trend in analyte concentration at MW-2 of PCE, TCE, and vinyl chloride (compounds with current or previous standard exceedances) has decreased over time.

At TW-13, a PAL exceedance of TCE (0.88 J ug/L) and an ES exceedance of vinyl chloride (0.26 J ug/L) were detected. Analyte concentrations in groundwater at TW-13 are decreasing over

time. Groundwater analytical results are provided in the attached table A.1. Lab report provided in Attachment 1.

The shallow groundwater elevations are provided in Table 2. Shallow groundwater was interpreted to flow in an easterly direction on 6/29/17. A figure representing the groundwater flow direction and vinyl chloride concentrations in groundwater is attached.

VAPOR COLLECTION METHOD

The soil gas samples were collected using the post run tubing (PRT) system method. With this method, a rod with an expendable point is driven to the desired depth (7.5 feet at this site). The rod is backed off about 4-6 inches to expose the desired soil. Post-run sample tubing is then run through the top rod end and threaded onto the bottom rod end. The rod is sealed to the surface with a bentonite putty. A metal shroud is placed over the rod and also sealed to the ground surface with a bentonite putty. Helium is injected into the metal shroud. The seal is verified by drawing a tube-volume of air through the tube, and then checking for helium in the discharged air. The process is continued until three tube-volumes have been extracted and checked for helium. Once the seal is verified, the tubing apparatus is opened to the Summa canister. A pressure check is performed on the Summa canister and tube assembly connections to verify there are no leaks in the tubing assembly. Once the vacuum is confirmed to not change for one minute, soil vapor is allowed to enter the Summa canister. Each sample point was allowed to draw soil vapor for a period of 30 minutes. Initial and final pressures, as well as start and stop times are recorded in the process.

SOIL GAS VAPOR RESULTS

Three deep soil gas samples were collected from the north (2) and east (1) perimeter of the site building on 8/4/17, at the locations indicated on the attached figure. Each sample was collected within about one foot of the exterior wall. The water table was about 8.5 feet below ground surface and the vapor samples were collected from the 7-7.5-foot range. Soil gas samples were collected into a 6-liter summa canister using the method described above, and analyzed for VOCs using method TO-15.

Soil gas sample results are provided in the attached Table 3. Deep soil gas vapor risk screening levels (VRSLs) are compared to the indoor air vapor action level (VAL) for a small commercial setting by using an attenuation factor of 0.01. Review of Table 3 indicates that no detected VOCs from the three soil gas sample locations exceeded the small commercial VRSL.

CONCLUSION & RECOMMENDATION

The June 2017 groundwater sampling results indicated “J” flagged vinyl chloride ES exceedances at two locations. The extents of the vinyl chloride in groundwater above its ES are defined to remain on the property. Moraine believes that due to the low levels of vinyl chloride and that the extent is defined and remains on-site, there is no need to perform additional groundwater investigation at the site.

The vapor intrusion assessment included placement of three deep soil gas vapor probes next to the building and within close proximity to the known CVOC groundwater plume. The vapor investigation resulted in no VOCs detected above small commercial VRSLs. As such, Moraine believes the site building is protected from vapor intrusion (keeping in mind that a vapor barrier was placed below the slab during building construction) and no additional vapor investigation is necessary.

Site data indicates the extents of both soil and groundwater impacts are defined and minimal. Vapor data results confirm the building and occupants are protected from potential vapor intrusion. Moraine requests from the WDNR, approval to prepare case closure through submittal of a 4400-202 GIS/Final Case Closure Report.

Thank you.

Sincerely,

A handwritten signature in black ink that reads "Dave Lennon". The signature is written in a cursive, flowing style.

Dave Lennon, P.E.
Senior Project Manager
Moraine Environmental, Inc.

Attachments Figures, Tables, Lab Reports

cc: Dianne Robertson – Village of Thiensville

Legend

- Soil boring locations:
B-1 through B-3 advanced on 9-20-12
- Geoprobe soil boring/temporary well locations:
B-4 through B-10 advanced on 10-1-12
- Temporary wells advanced on 10-16-13
TW-6a
- Monitoring wells advanced on 10-16-13
MW-1
- Geoprobe soil boring/temporary well locations:
GP-11/
TW-11 through TW-16 advanced on 1-26-16

GW Flow Direction & Vinyl chloride results
on 6/29/17

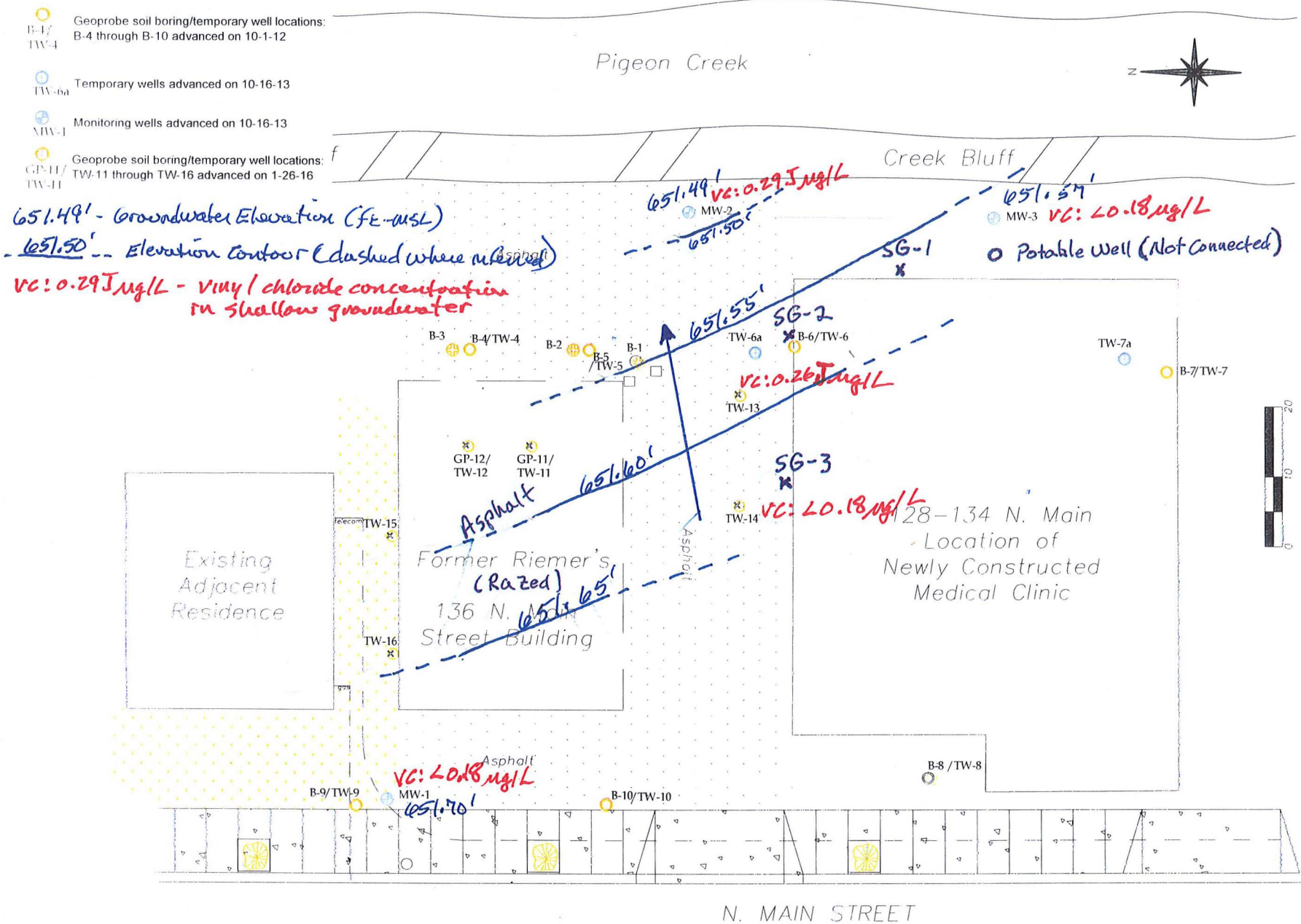
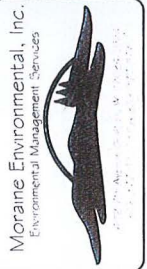


FIGURE 2
SITE PLAN # SOIL BORING LOCATIONS

Village of Thensville,
128 - 136 N. Main Street
Thensville, WI

Scale: 1" = 20'

Revised By: CTS
Revised: 10-26-13
Project File: Moriel56r_SG13_Ar.mxd.dwg
*Note: Depiction prepared from field notes

Deep Soil Gas Vapor Sample Locations & Results: samples collected 8-4-17

Legend

- Soil boring locations:
B-1 through B-3 advanced on 9-20-12
- Geoprobe soil boring/temporary well locations:
B-4 through B-10 advanced on 10-1-12
- Temporary wells advanced on 10-16-13
TW-6a
- Monitoring wells advanced on 10-16-13
MW-1
- Geoprobe soil boring/temporary well locations:
GP-11 through GP-12 advanced on 1-26-16
TW-11

- Note: All detected VOC's were below Pigeon Creek respective vapor risk screening levels.



LVRSL's - sample results below vapor risk screening levels

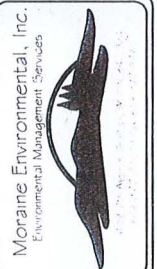
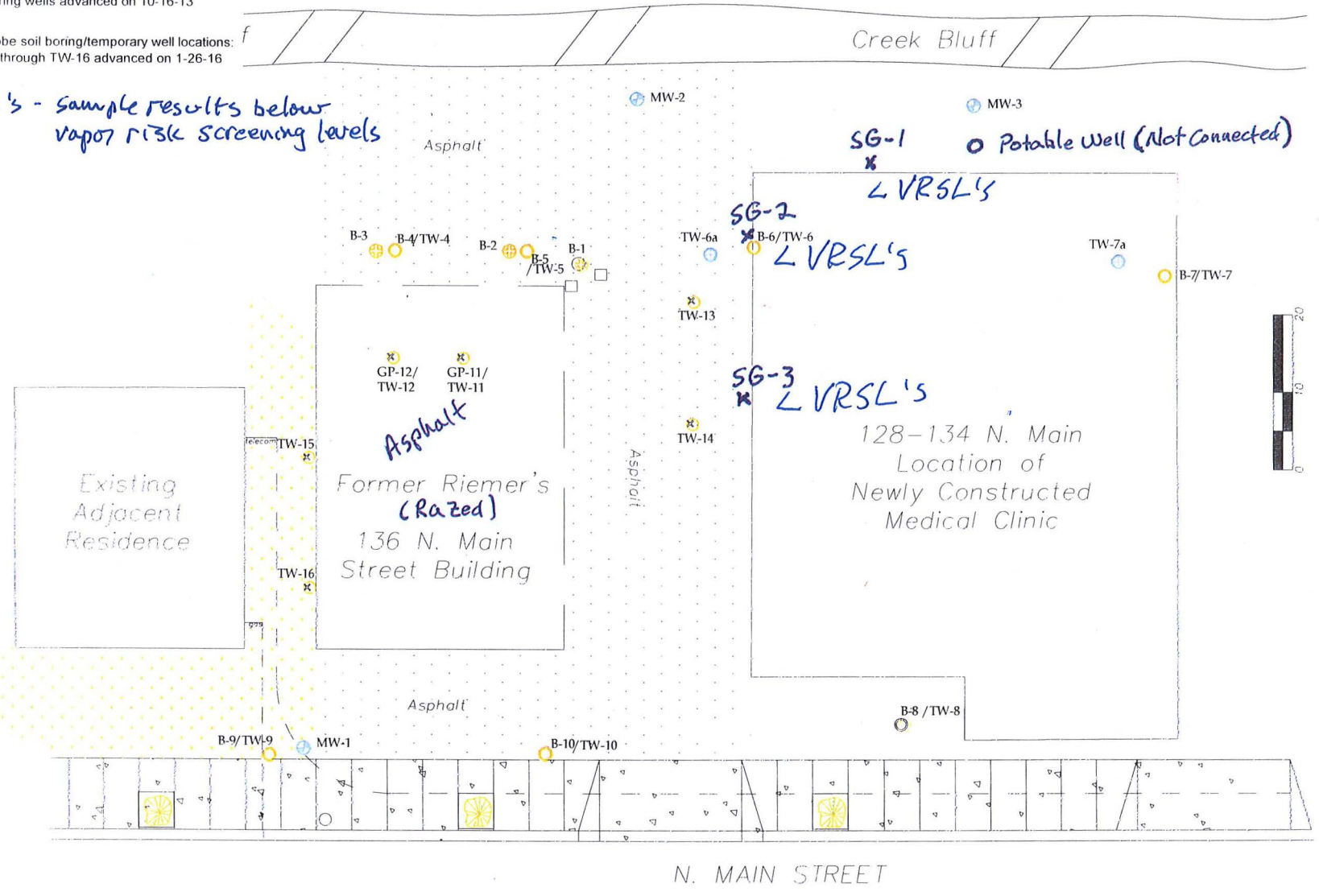


FIGURE 2
SITE PLAN & SOIL BORING LOCATIONS

Village of Thiensville,
128 - 136 N. Main Street
Thiensville, WI

Scale 1" = 20'
Revised by: CFS
Revised: 10/26/13
Project File: Moris, SG, SG.3, Moris, dskg
*Note: Description prepared from field notes

A.1.
Groundwater Analytical Table
Riemer's Flowers (Former Dry Cleaner)
136 N Main Street
Thiensville, WI 53092

Well ID	MW-1						MW-2						MW-3						NR 140 Preventive Action Limit	NR 140 Enforcemen t Standard
	10/31/13	1/15/14	4/14/14	10/22/14	11/25/15	6/29/17	10/31/13	1/15/14	4/14/14	10/22/14	11/25/15	6/29/17	10/31/13	1/15/14	4/14/14	10/22/14	11/25/15	6/29/17		
Detected Volatile Organic Compounds (ug/L)																				
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NS	NS
Tetrachloroethene	<0.47	<0.47	<0.50	<0.50	<0.50	<0.50	26.5	20.0	10.9	12.4	6.0	<i>1.6</i>	<i>0.52 J</i>	<0.47	<0.50	<0.50	<0.50	<0.50	0.5	5
Toluene	<0.44	<0.44	<0.50	<0.50	0.54 J	<0.50	<0.44	<0.44	<0.50	<0.50	<0.50	<0.50	<0.44	<0.44	<0.50	<0.50	<0.50	<0.50	160	800
Trichloroethene	<0.36	<0.36	<0.33	<0.33	<0.33	<0.33	6.7	5.8	3.3	3.2	1.4	<i>0.89 J</i>	<0.36	<0.36	<0.33	<0.33	<0.33	<0.33	0.5	5
Vinyl chloride	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	0.44 J	0.32 J	<0.18	<0.18	<0.18	0.29 J	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	0.02	0.2
cis-1,2-Dichloroethene	<0.42	<0.42	<0.26	<0.26	<0.26	<0.26	12.2	9.0	3.9	3.7	4.3	6.1	0.45 J	<0.42	<0.26	<0.26	<0.26	<0.26	7	70
Xylenes, total	<0.50	<0.50	<1.5	<1.5	<1.5	<1.5	<0.50	<0.50	<1.5	<1.5	<1.5	<1.5	<0.50	<0.50	<1.5	<1.5	<1.5	<1.5	400	2,000
Total Trimethylbenzenes	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	96	480

Well ID	Sample Collection Date	TW-4	TW-5	TW-6	TW-6A	TW-7	TW-7A	TW-8	TW-9	TW-10	TW-11	TW-12	TW-13		TW-14		TW-15	TW-16	NR 140 Preventive Action Limit	NR 140 Enforcemen t Standard
		10/1/12	10/1/12	10/1/12	10/16/13	10/1/12	10/16/13	10/1/12	10/1/12	10/1/12	10/1/12	1/28/16	1/28/16	1/28/16	6/29/17	1/28/16	6/29/17	1/28/16		
Detected Volatile Organic Compounds (ug/L)																				
1,2,4-Trimethylbenzene		<0.97	<0.97	<0.97	<0.50	<0.97	<0.50	<0.97	<0.97	<0.97	<0.50	<0.50	<0.50	<0.50	0.59 J	<0.50	<0.50	<0.50	NS	NS
Tetrachloroethene		<i>0.61 J</i>	3.0	9.8	2.7	1.9	<0.47	<0.45	<0.45	<0.45	1.8	<i>0.87 J</i>	12.7	<0.50	4.4	<0.50	<0.50	<0.50	0.5	5
Toluene		6.0	4.1	<0.67	<0.44	<0.67	<0.44	<0.67	0.74 J	1.2	27.4	0.67 J	0.58 J	<0.50	0.84 J	1.2	<0.50	0.64 J	160	800
Trichloroethene		1.2	<0.48	<i>0.56 J</i>	0.43 J	1.1	<0.36	<0.48	<0.48	<0.48	<0.33	<0.33	1.2	<i>0.88 J</i>	<0.33	<0.33	<0.33	<0.33	0.5	5
Vinyl chloride		<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	0.48 J	0.26 J	<0.18	<0.18	<0.18	<0.18	0.02	0.2
cis-1,2-Dichloroethene		<0.83	4.0	<0.83	2.6	<0.83	<0.42	<0.83	<0.83	<0.83	1.1	<0.26	2.8	5	<0.26	<0.26	<0.26	<0.26	7	70
Xylenes, total		<0.83	<0.83	<0.83	0.62 J	<0.83	<0.50	<0.83	<0.83	<0.83	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	400	2,000
Total Trimethylbenzenes		<0.83	<0.83	<0.83	<0.50	<0.83	<0.50	<0.83	0.83	<0.83	<0.50	<0.50	<0.50	<0.50	0.59 J	<0.50	<0.50	<0.50	96	480

Note:

All values expressed in ug/L (micrograms per liter).

NA - sample Not Analyzed for this parameter

NS - No Standard established for this analyte

ND - Not Detected

--- Not Analyzed

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

Bold text identifies NR 140 Enforcement Standard Exceedance

Italicized text identifies Preventative Action Limit Exceedance.

Data Table A.7.
Water Level Elevations
Riemer's Flowers (Former Dry Cleaner)
136 N. Main St
Thiensville, Wisconsin 53092

Monitoring Well No./ Date	Ground Surface (ft)	Top of PVC Well Casing (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)
MW-1	659.50	659.16		
10/31/13			9.78	649.38
4/14/14			6.45	652.71
10/22/14			9.05	650.11
11/25/15			9.05	650.11
2/27/17	659.5	659.33	7.26	652.07
6/29/17			7.63	651.70
MW-2	658.30	660.75		
10/31/13			11.61	649.14
4/14/14			7.21	653.54
10/22/14			11.00	649.75
11/25/15			11.75	649.00
2/27/17	661.7	660.69	8.84	651.85
6/29/17			9.20	651.49
MW-3	658.60	660.55		
10/31/13			11.53	649.02
4/14/14			6.40	654.15
10/22/14			10.68	649.87
11/25/15			10.75	649.80
2/27/17	661.8	660.87	8.73	652.14
6/29/17			9.30	651.57
TW-11	-	0.1' bgs		
1/28/16			11.37	-
TW-12	-	0.1' bgs		
1/28/16			11.22	-
TW-13	-	0.1' bgs		
1/28/16			11.65	-
6/29/17			9.6	
TW-14	-	0.1' bgs		
1/28/16			11.53	-
6/29/17			9.5	
TW-15	-	0.6' above gs		
1/28/16			12.07	-
TW-16	-	1.3' above gs		
1/28/16			12.28	-

Note: Monitoring wells MW-2 and MW-3 have stick-up well covers and the PVC riser pipe extends above the ground surface. Monitoring well MW-1 has a flush mount well cover.

*As of 11/25/15 Asphalt Parking lot put in. MW-2 and MW-3 are no longer above ground surface. Ground Surface measurement taken from nearest asphalt to well.

Table 3
Deep Soil Gas Vapor Analytical Results
Former Riemer's Flowers
136 N Main Street
Thiensville, WI 53092

Sample ID	SG-1	SG-2	SG-3	Small Commercial Setting		
	08/04/17	8/4/2017	8/4/2017		AF = 0.03	AF = 0.01
Date Collected						
Duration of sample procurement (minutes)	30	30	30	Indoor Air VAL	Sub-Slab Vapor VRSL	Deep Soil Gas Vapor VRSL
DSG = Deep Soil Gas	DSG	DSG	DSG			
Volatile Organic Compounds by method TO-15 (µg/m³)						
1,1,1-Trichloroethane	3.8	<1.1	2.3	22,000	730,000	2,200,000
1,1,2,2-Tetrachloroethane	<0.46	<0.81	<0.46	2	70	210
1,1,2-Trichloroethane	<0.39	<0.70	<0.39	7.7	260	770
1,1,2-Trichlorotrifluoroethane	<0.63	<1.1	<0.63	---	---	---
1,1-Dichloroethane	<0.37	<0.66	<0.37	77	2,600	7,700
1,1-Dichloroethene	<0.41	<0.73	<0.41	880	29,000	88,000
1,2,4-Trichlorobenzene	<1.7	<3.0	<1.7	88	2,900	8,800
1,2,4-Trimethylbenzene	49.0	75.7	47.7	31	1,000	3,100
1,2-Dibromoethane (EDB)	<0.52	<0.92	<0.52	0.2	6.7	20
1,2-Dichlorobenzene	<0.32	<0.57	<0.32	880	29,000	88,000
1,2-Dichloroethane	<0.33	<0.58	<0.33	4.7	160	470
1,2-Dichloropropane	<0.39	<0.69	<0.39	12	400	1,200
1,3,5-Trimethylbenzene	12.1	23.0	13.8	---	---	---
1,3-Butadiene	<0.18	<0.32	<0.18	4.1	137	410
1,3-Dichlorobenzene	<0.25	<0.45	<0.25	---	---	---
1,4-Dichlorobenzene	<0.36	<0.64	<0.36	11	370	1,100
2-Butanone (MEK)	23.8	143	80.7	22,000	730,000	2,200,000
2-Hexanone	<0.39	<0.69	3.9 J	130	4,300	13,000
2-Propanol	3.4 J	7.9	<0.61	---	---	---
4-Ethyltoluene	15.6	26.0	13.6	---	---	---
4-Methyl-2-pentanone (MIBK)	<0.42	8.3 J	3.7 J	13,000	430,000	1,300,000
Acetone	126	390	291	140,000	4,700,000	14,000,000
Benzene	11.9	165	17.0	16	530	1,600
Benzyl chloride	<0.41	<0.73	<0.41	2.5	84	250
Bromodichloromethane	<0.40	<0.71	<0.40	3.3	110	330
Bromoform	<0.71	<1.3	<0.71	110	3,670	11,000
Bromomethane	<0.36	<0.64	<0.36	22	730	2,200
Carbon disulfide	4.2	14.3	3.5	3,100	100,000	310,000
Carbon tetrachloride	<0.51	<0.91	<0.51	20	670	2,000
Chlorobenzene	<0.31	<0.55	<0.31	220	7,330	22,000
Chloroethane	<0.36	<0.63	<0.36	---	---	---
Chloroform	14.9	1.8	12.8	5.3	180	530
Chloromethane	<0.19	<0.33	<0.19	390	13,000	39,000
Cyclohexane	99.3	98.1	60.5	26,000	870,000	2,600,000
Dibromochloromethane	<0.57	<1.0	<0.57	---	---	---
Dichlorodifluoromethane	1.3 J	<1.3	<0.73	440	15,000	44,000
Dichlorotetrafluoroethane	<0.77	<1.4	<0.77	---	---	---
Ethanol	3.6	11.6	12.5	---	---	---
Ethyl acetate	<0.29	<0.52	<0.29	350	12,000	35,000
Ethylbenzene	24.5	47.2	24.1	49	1,600	4,900
Hexachloro-1,3-butadiene	<0.72	<1.3	<0.72	5.6	190	560
Methyl-tert-butyl ether	<0.55	<0.97	<0.55	470	16,000	47,000
Methylene Chloride	9.8	14.6	<2.7	2,600	87,000	260,000
Naphthalene	9.9	14.7	10.0	3.6	120	360
Propylene	76.9	282	<0.19	13,000	430,000	1,300,000
Styrene	3.0	48.6	14.7	4,400	150,000	440,000
Tetrachloroethene	314	210	273	180	6,000	18,000
Tetrahydrofuran	<0.18	2.3	<0.18	---	---	---
Toluene	87.9	230	64.7	22,000	730,000	2,200,000
Trichloroethene	4.3	23.1	3.0	8.8	290	880
Trichlorofluoromethane	2.5	<1.3	<0.73	---	---	---
Vinyl acetate	1.9	8.8	<0.23	880	29,000	88,000
Vinyl chloride	<0.22	<0.39	<0.22	28	930	2,800
cis-1,2-Dichloroethene	9.9	28.3	<0.38	---	---	---
cis-1,3-Dichloropropene	<0.15	<0.27	<0.15	---	---	---
m&p-Xylene	78.0	144	60.6	440	15,000	44,000
n-Heptane	46.1	108	52.2	---	---	---
n-Hexane	38.1	128	57.3	3,100	100,000	310,000
o-Xylene	27.4	61.2	24.1	440	15,000	44,000
trans-1,2-Dichloroethene	<0.34	2.2 J	<0.34	---	---	---
trans-1,3-Dichloropropene	<0.24	<0.43	<0.24	31	1,000	3,100

Note:

Helium shroud and shut-in test method procedure used prior to sample collection into 6L Summa canister. No helium present at any sample points.

µg/m³ = micrograms per cubic meter

AF = Attenuation Facator

VAL = Vapor Action Level

VRSL = Vapor Risk Screening Level

NA - sample Not Analyzed for this parameter

NS - No Standard established for this analyte

--- No standard established for the listed compound

Bold values exceed the standard for the type of vapor sample collected

July 05, 2017

Tom Sweet
Moraine Environmental, Inc.
766 Tower Drive
Fredonia, WI 53021

RE: Project: 5613 RIEMER'S
Pace Project No.: 40152688

Dear Tom Sweet:

Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2017. 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,



Christopher Hyska for
Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 5613 RIEMER'S

Pace Project No.: 40152688

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 5613 RIEMER'S
Pace Project No.: 40152688

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40152688001	MW-1	Water	06/29/17 12:30	07/01/17 08:00
40152688002	MW-2	Water	06/29/17 12:40	07/01/17 08:00
40152688003	MW-3	Water	06/29/17 12:50	07/01/17 08:00
40152688004	TW-13	Water	06/29/17 13:00	07/01/17 08:00
40152688005	TW-14	Water	06/29/17 13:10	07/01/17 08:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 5613 RIEMER'S

Pace Project No.: 40152688

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40152688001	MW-1	EPA 8260	HNW	64	PASI-G
40152688002	MW-2	EPA 8260	HNW	64	PASI-G
40152688003	MW-3	EPA 8260	HNW	64	PASI-G
40152688004	TW-13	EPA 8260	HNW	64	PASI-G
40152688005	TW-14	EPA 8260	HNW	64	PASI-G

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ANALYTICAL RESULTS

Project: 5613 RIEMER'S

Pace Project No.: 40152688

Sample: MW-1 **Lab ID: 40152688001** Collected: 06/29/17 12:30 Received: 07/01/17 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/03/17 23:01	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/03/17 23:01	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/03/17 23:01	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/03/17 23:01	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/03/17 23:01	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/03/17 23:01	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/03/17 23:01	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/03/17 23:01	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/03/17 23:01	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/03/17 23:01	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/03/17 23:01	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/03/17 23:01	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/03/17 23:01	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/03/17 23:01	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/03/17 23:01	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/03/17 23:01	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/03/17 23:01	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/03/17 23:01	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/03/17 23:01	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/03/17 23:01	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/03/17 23:01	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/03/17 23:01	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/03/17 23:01	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/03/17 23:01	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/03/17 23:01	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/03/17 23:01	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/03/17 23:01	630-20-6	

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ANALYTICAL RESULTS

Project: 5613 RIEMER'S

Pace Project No.: 40152688

Sample: MW-1 **Lab ID: 40152688001** Collected: 06/29/17 12:30 Received: 07/01/17 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/03/17 23:01	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/03/17 23:01	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/03/17 23:01	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/03/17 23:01	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		07/03/17 23:01	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/03/17 23:01	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/03/17 23:01	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/03/17 23:01	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		07/03/17 23:01	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		07/03/17 23:01	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		07/03/17 23:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 5613 RIEMER'S

Pace Project No.: 40152688

Sample: MW-2 Lab ID: 40152688002 Collected: 06/29/17 12:40 Received: 07/01/17 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/03/17 23:24	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/03/17 23:24	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/03/17 23:24	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/03/17 23:24	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/03/17 23:24	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/03/17 23:24	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/03/17 23:24	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/03/17 23:24	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/03/17 23:24	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/03/17 23:24	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/03/17 23:24	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/03/17 23:24	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/03/17 23:24	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/03/17 23:24	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/03/17 23:24	75-35-4	
cis-1,2-Dichloroethene	6.1	ug/L	1.0	0.26	1		07/03/17 23:24	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/03/17 23:24	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/03/17 23:24	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/03/17 23:24	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/03/17 23:24	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/03/17 23:24	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/03/17 23:24	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/03/17 23:24	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/03/17 23:24	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/03/17 23:24	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/03/17 23:24	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/03/17 23:24	630-20-6	

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ANALYTICAL RESULTS

Project: 5613 RIEMER'S

Pace Project No.: 40152688

Sample: MW-2 **Lab ID: 40152688002** Collected: 06/29/17 12:40 Received: 07/01/17 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/03/17 23:24	79-34-5	
Tetrachloroethene	1.6	ug/L	1.0	0.50	1		07/03/17 23:24	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/03/17 23:24	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/03/17 23:24	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/03/17 23:24	79-00-5	
Trichloroethene	0.89J	ug/L	1.0	0.33	1		07/03/17 23:24	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/03/17 23:24	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	108-67-8	
Vinyl chloride	0.29J	ug/L	1.0	0.18	1		07/03/17 23:24	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/03/17 23:24	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		07/03/17 23:24	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		07/03/17 23:24	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		07/03/17 23:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 5613 RIEMER'S

Pace Project No.: 40152688

Sample: MW-3 **Lab ID: 40152688003** Collected: 06/29/17 12:50 Received: 07/01/17 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/03/17 23:47	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/03/17 23:47	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/03/17 23:47	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/03/17 23:47	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/03/17 23:47	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/03/17 23:47	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/03/17 23:47	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/03/17 23:47	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/03/17 23:47	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/03/17 23:47	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/03/17 23:47	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/03/17 23:47	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/03/17 23:47	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/03/17 23:47	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/03/17 23:47	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/03/17 23:47	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/03/17 23:47	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/03/17 23:47	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/03/17 23:47	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/03/17 23:47	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/03/17 23:47	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/03/17 23:47	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/03/17 23:47	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/03/17 23:47	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/03/17 23:47	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/03/17 23:47	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/03/17 23:47	630-20-6	

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ANALYTICAL RESULTS

Project: 5613 RIEMER'S

Pace Project No.: 40152688

Sample: MW-3 **Lab ID: 40152688003** Collected: 06/29/17 12:50 Received: 07/01/17 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/03/17 23:47	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/03/17 23:47	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/03/17 23:47	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/03/17 23:47	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		07/03/17 23:47	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/03/17 23:47	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/03/17 23:47	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/03/17 23:47	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/03/17 23:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		07/03/17 23:47	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		07/03/17 23:47	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		07/03/17 23:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 5613 RIEMER'S

Pace Project No.: 40152688

Sample: TW-13 **Lab ID: 40152688004** Collected: 06/29/17 13:00 Received: 07/01/17 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/04/17 00:10	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/04/17 00:10	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/04/17 00:10	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/04/17 00:10	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/04/17 00:10	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/04/17 00:10	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/04/17 00:10	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/04/17 00:10	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/04/17 00:10	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/04/17 00:10	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/04/17 00:10	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/04/17 00:10	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/04/17 00:10	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/04/17 00:10	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/04/17 00:10	75-35-4	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	0.26	1		07/04/17 00:10	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/04/17 00:10	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/04/17 00:10	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/04/17 00:10	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/04/17 00:10	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/04/17 00:10	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/04/17 00:10	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/04/17 00:10	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/04/17 00:10	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/04/17 00:10	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/04/17 00:10	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/04/17 00:10	630-20-6	

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ANALYTICAL RESULTS

Project: 5613 RIEMER'S
Pace Project No.: 40152688

Sample: TW-13 **Lab ID: 40152688004** Collected: 06/29/17 13:00 Received: 07/01/17 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/04/17 00:10	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/04/17 00:10	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/04/17 00:10	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/04/17 00:10	79-00-5	
Trichloroethene	0.88J	ug/L	1.0	0.33	1		07/04/17 00:10	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/04/17 00:10	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	108-67-8	
Vinyl chloride	0.26J	ug/L	1.0	0.18	1		07/04/17 00:10	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/04/17 00:10	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		07/04/17 00:10	460-00-4	
Dibromofluoromethane (S)	107	%	67-130		1		07/04/17 00:10	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		07/04/17 00:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 5613 RIEMER'S

Pace Project No.: 40152688

Sample: TW-14 **Lab ID: 40152688005** Collected: 06/29/17 13:10 Received: 07/01/17 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/04/17 00:33	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/04/17 00:33	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/04/17 00:33	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/04/17 00:33	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/04/17 00:33	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/04/17 00:33	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/04/17 00:33	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/04/17 00:33	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/04/17 00:33	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/04/17 00:33	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/04/17 00:33	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/04/17 00:33	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/04/17 00:33	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/04/17 00:33	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/04/17 00:33	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/04/17 00:33	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/04/17 00:33	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/04/17 00:33	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/04/17 00:33	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/04/17 00:33	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/04/17 00:33	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/04/17 00:33	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/04/17 00:33	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/04/17 00:33	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/04/17 00:33	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/04/17 00:33	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/04/17 00:33	630-20-6	

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ANALYTICAL RESULTS

Project: 5613 RIEMER'S

Pace Project No.: 40152688

Sample: TW-14 **Lab ID: 40152688005** Collected: 06/29/17 13:10 Received: 07/01/17 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/04/17 00:33	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	127-18-4	
Toluene	1.2	ug/L	1.0	0.50	1		07/04/17 00:33	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/04/17 00:33	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/04/17 00:33	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/04/17 00:33	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		07/04/17 00:33	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/04/17 00:33	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/04/17 00:33	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/04/17 00:33	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/04/17 00:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		07/04/17 00:33	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		07/04/17 00:33	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		07/04/17 00:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5613 RIEMER'S

Pace Project No.: 40152688

QC Batch: 260366 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40152688001, 40152688002, 40152688003, 40152688004, 40152688005

METHOD BLANK: 1534581 Matrix: Water
Associated Lab Samples: 40152688001, 40152688002, 40152688003, 40152688004, 40152688005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	07/03/17 17:17	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	07/03/17 17:17	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	07/03/17 17:17	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	07/03/17 17:17	
1,1-Dichloroethane	ug/L	<0.24	1.0	07/03/17 17:17	
1,1-Dichloroethene	ug/L	<0.41	1.0	07/03/17 17:17	
1,1-Dichloropropene	ug/L	<0.44	1.0	07/03/17 17:17	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	07/03/17 17:17	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	07/03/17 17:17	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	07/03/17 17:17	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	07/03/17 17:17	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	07/03/17 17:17	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	07/03/17 17:17	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	07/03/17 17:17	
1,2-Dichloroethane	ug/L	<0.17	1.0	07/03/17 17:17	
1,2-Dichloropropane	ug/L	<0.23	1.0	07/03/17 17:17	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	07/03/17 17:17	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	07/03/17 17:17	
1,3-Dichloropropane	ug/L	<0.50	1.0	07/03/17 17:17	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	07/03/17 17:17	
2,2-Dichloropropane	ug/L	<0.48	1.0	07/03/17 17:17	
2-Chlorotoluene	ug/L	<0.50	1.0	07/03/17 17:17	
4-Chlorotoluene	ug/L	<0.21	1.0	07/03/17 17:17	
Benzene	ug/L	<0.50	1.0	07/03/17 17:17	
Bromobenzene	ug/L	<0.23	1.0	07/03/17 17:17	
Bromochloromethane	ug/L	<0.34	1.0	07/03/17 17:17	
Bromodichloromethane	ug/L	<0.50	1.0	07/03/17 17:17	
Bromoform	ug/L	<0.50	1.0	07/03/17 17:17	
Bromomethane	ug/L	<2.4	5.0	07/03/17 17:17	
Carbon tetrachloride	ug/L	<0.50	1.0	07/03/17 17:17	
Chlorobenzene	ug/L	<0.50	1.0	07/03/17 17:17	
Chloroethane	ug/L	<0.37	1.0	07/03/17 17:17	
Chloroform	ug/L	<2.5	5.0	07/03/17 17:17	
Chloromethane	ug/L	<0.50	1.0	07/03/17 17:17	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	07/03/17 17:17	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	07/03/17 17:17	
Dibromochloromethane	ug/L	<0.50	1.0	07/03/17 17:17	
Dibromomethane	ug/L	<0.43	1.0	07/03/17 17:17	
Dichlorodifluoromethane	ug/L	<0.22	1.0	07/03/17 17:17	
Diisopropyl ether	ug/L	<0.50	1.0	07/03/17 17:17	
Ethylbenzene	ug/L	<0.50	1.0	07/03/17 17:17	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5613 RIEMER'S

Pace Project No.: 40152688

METHOD BLANK: 1534581

Matrix: Water

Associated Lab Samples: 40152688001, 40152688002, 40152688003, 40152688004, 40152688005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	07/03/17 17:17	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	07/03/17 17:17	
m&p-Xylene	ug/L	<1.0	2.0	07/03/17 17:17	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	07/03/17 17:17	
Methylene Chloride	ug/L	<0.23	1.0	07/03/17 17:17	
n-Butylbenzene	ug/L	<0.50	1.0	07/03/17 17:17	
n-Propylbenzene	ug/L	<0.50	1.0	07/03/17 17:17	
Naphthalene	ug/L	<2.5	5.0	07/03/17 17:17	
o-Xylene	ug/L	<0.50	1.0	07/03/17 17:17	
p-Isopropyltoluene	ug/L	<0.50	1.0	07/03/17 17:17	
sec-Butylbenzene	ug/L	<2.2	5.0	07/03/17 17:17	
Styrene	ug/L	<0.50	1.0	07/03/17 17:17	
tert-Butylbenzene	ug/L	<0.18	1.0	07/03/17 17:17	
Tetrachloroethene	ug/L	<0.50	1.0	07/03/17 17:17	
Toluene	ug/L	<0.50	1.0	07/03/17 17:17	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	07/03/17 17:17	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	07/03/17 17:17	
Trichloroethene	ug/L	<0.33	1.0	07/03/17 17:17	
Trichlorofluoromethane	ug/L	<0.18	1.0	07/03/17 17:17	
Vinyl chloride	ug/L	<0.18	1.0	07/03/17 17:17	
4-Bromofluorobenzene (S)	%	96	61-130	07/03/17 17:17	
Dibromofluoromethane (S)	%	103	67-130	07/03/17 17:17	
Toluene-d8 (S)	%	90	70-130	07/03/17 17:17	

LABORATORY CONTROL SAMPLE: 1534582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	61.4	123	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	41.8	84	70-130	
1,1,2-Trichloroethane	ug/L	50	48.1	96	70-130	
1,1-Dichloroethane	ug/L	50	48.3	97	71-132	
1,1-Dichloroethene	ug/L	50	50.3	101	75-130	
1,2,4-Trichlorobenzene	ug/L	50	44.4	89	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.6	89	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	52.3	105	70-130	
1,2-Dichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dichloroethane	ug/L	50	53.3	107	70-131	
1,2-Dichloropropane	ug/L	50	48.1	96	80-120	
1,3-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,4-Dichlorobenzene	ug/L	50	51.4	103	70-130	
Benzene	ug/L	50	47.3	95	73-145	
Bromodichloromethane	ug/L	50	59.3	119	70-130	
Bromoform	ug/L	50	56.5	113	67-130	
Bromomethane	ug/L	50	35.5	71	26-128	

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QUALITY CONTROL DATA

Project: 5613 RIEMER'S

Pace Project No.: 40152688

LABORATORY CONTROL SAMPLE: 1534582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	64.1	128	70-133	
Chlorobenzene	ug/L	50	53.5	107	70-130	
Chloroethane	ug/L	50	44.2	88	58-120	
Chloroform	ug/L	50	53.6	107	80-121	
Chloromethane	ug/L	50	28.8	58	40-127	
cis-1,2-Dichloroethene	ug/L	50	64.5	129	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.4	89	70-130	
Dibromochloromethane	ug/L	50	55.1	110	70-130	
Dichlorodifluoromethane	ug/L	50	33.8	68	20-135	
Ethylbenzene	ug/L	50	51.2	102	87-129	
Isopropylbenzene (Cumene)	ug/L	50	53.6	107	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	51.4	103	66-143	
Methylene Chloride	ug/L	50	50.8	102	70-130	
o-Xylene	ug/L	50	53.4	107	70-130	
Styrene	ug/L	50	52.5	105	70-130	
Tetrachloroethene	ug/L	50	57.1	114	70-130	
Toluene	ug/L	50	51.0	102	82-130	
trans-1,2-Dichloroethene	ug/L	50	53.7	107	75-132	
trans-1,3-Dichloropropene	ug/L	50	44.2	88	70-130	
Trichloroethene	ug/L	50	57.6	115	70-130	
Trichlorofluoromethane	ug/L	50	63.4	127	76-133	
Vinyl chloride	ug/L	50	40.6	81	57-136	
4-Bromofluorobenzene (S)	%			103	61-130	
Dibromofluoromethane (S)	%			102	67-130	
Toluene-d8 (S)	%			92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1534737 1534738

Parameter	Units	40152605021		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1-Trichloroethane	ug/L	<0.50	50	50	61.4	61.7	123	123	70-134	0	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	41.1	41.3	82	83	70-130	0	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	48.3	47.6	97	95	70-130	2	20		
1,1-Dichloroethane	ug/L	<0.24	50	50	48.0	47.5	96	95	71-133	1	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	51.8	52.0	104	104	75-136	0	20		
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	46.0	46.2	92	92	70-130	0	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	44.5	45.0	89	90	63-123	1	20		
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.0	52.3	104	105	70-130	1	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	49.5	49.8	99	100	70-130	0	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	53.1	53.0	106	106	70-131	0	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	47.5	47.0	95	94	80-120	1	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	49.4	49.8	99	100	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.9	51.3	102	103	70-130	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5613 RIEMER'S
Pace Project No.: 40152688

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1534737												1534738		
Parameter	Units	40152605021		MS	MSD	MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Benzene	ug/L	<0.50	50	50	47.1	47.1	94	94	73-145	0	20			
Bromodichloromethane	ug/L	<0.50	50	50	58.0	57.8	116	116	70-130	0	20			
Bromoform	ug/L	<0.50	50	50	55.1	55.6	110	111	67-130	1	20			
Bromomethane	ug/L	<2.4	50	50	42.1	45.2	84	90	26-129	7	20			
Carbon tetrachloride	ug/L	<0.50	50	50	63.2	63.4	126	127	70-134	0	20			
Chlorobenzene	ug/L	<0.50	50	50	52.9	53.0	106	106	70-130	0	20			
Chloroethane	ug/L	<0.37	50	50	45.3	47.0	91	94	58-120	4	20			
Chloroform	ug/L	<2.5	50	50	53.5	53.0	107	106	80-121	1	20			
Chloromethane	ug/L	<0.50	50	50	30.7	30.9	61	62	40-128	1	20			
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	64.2	64.7	128	129	70-130	1	20			
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	44.2	44.2	88	88	70-130	0	20			
Dibromochloromethane	ug/L	<0.50	50	50	54.2	54.2	108	108	70-130	0	20			
Dichlorodifluoromethane	ug/L	<0.22	50	50	41.2	41.3	82	83	20-146	0	20			
Ethylbenzene	ug/L	<0.50	50	50	51.0	50.8	102	102	87-129	0	20			
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	53.0	53.0	106	106	70-130	0	20			
m&p-Xylene	ug/L	<1.0	100	100	108	107	108	107	70-130	1	20			
Methyl-tert-butyl ether	ug/L	<0.17	50	50	51.4	50.7	103	101	66-143	1	20			
Methylene Chloride	ug/L	<0.23	50	50	50.4	50.3	101	101	70-130	0	20			
o-Xylene	ug/L	<0.50	50	50	53.5	52.6	107	105	70-130	2	20			
Styrene	ug/L	<0.50	50	50	52.3	51.8	105	104	70-130	1	20			
Tetrachloroethene	ug/L	<0.50	50	50	56.8	56.2	114	112	70-130	1	20			
Toluene	ug/L	<0.50	50	50	50.8	50.3	102	101	82-131	1	20			
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	54.0	54.8	108	110	75-135	1	20			
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	44.3	43.8	89	88	70-130	1	20			
Trichloroethene	ug/L	<0.33	50	50	55.9	56.4	112	113	70-130	1	20			
Trichlorofluoromethane	ug/L	<0.18	50	50	64.3	64.5	129	129	76-150	0	20			
Vinyl chloride	ug/L	<0.18	50	50	43.4	43.5	87	87	56-143	0	20			
4-Bromofluorobenzene (S)	%						103	103	61-130					
Dibromofluoromethane (S)	%						104	104	67-130					
Toluene-d8 (S)	%						92	91	70-130					

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 5613 RIEMER'S

Pace Project No.: 40152688

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-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5613 RIEMER'S

Pace Project No.: 40152688

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40152688001	MW-1	EPA 8260	260366		
40152688002	MW-2	EPA 8260	260366		
40152688003	MW-3	EPA 8260	260366		
40152688004	TW-13	EPA 8260	260366		
40152688005	TW-14	EPA 8260	260366		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Morraine Eaw.
 Branch/Location: G Fredonia
 Project Contact: Tom Sweet
 Phone: 262-692-3345
 Project Number: 5613
 Project Name: Riemer's
 Project State: WI
 Sampled By (Print): Colleen Duffy
 Sampled By (Sign): Colleen Duffy
 PO #:



UPPER MIDWEST REGION
 MN 612-607-1700 WI: 920-469-2436

40152688

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Analyses Requested	Y/N	Pick Letter																	
		N	B																

Quote #: _____
 Mail To Contact: Tom Sweet
 Mail To Company: Morraine Eaw.
 Mail To Address: 766 Tower Dr. Fredonia, WI 53021
 Invoice To Contact: As Above
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested
		DATE	TIME		
001	MW-1	6/29/17	12:30	GW	X
002	MW-2		12:40		X
003	MW-3		12:50		X
004	TW-13		13:05		X
005	TW-14		13:10		X

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)
3-40mV^B

Profile #

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):

Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: Colleen Duffy Date/Time: 6/30/17 11:30
 Relinquished By: Mary Jannin Date/Time: 6/30/17 15:15
 Relinquished By: CS Logistics Date/Time: 7/1/17 0800
 Relinquished By: _____ Date/Time: _____

Received By: Mary Jannin Date/Time: 6/30/17 11:30
 Received By: _____ Date/Time: _____
 Received By: Reagan Hamner Date/Time: 7/1/17 0800
 Received By: _____ Date/Time: _____

PACE Project No. 40152688
 Receipt Temp = 201 °C
 Sample Receipt pH
 OK / Adjusted
 Cooler Custody Seal
 Present / Not Present
 Intact / Not Intact



Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Moraine Env

Project #: WO#: 40152688

Courier: Fed Ex UPS Client Pace Other: CS Logistics



Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 201 / Corr: 201 Biological Tissue is Frozen: yes

Temp Blank Present: yes no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 7/1/17
Initials: MMH

Comments:

Table with 15 rows of inspection criteria and checkboxes. Includes items like Chain of Custody Present, Short Hold Time Analysis, Rush Turn Around Time Requested, etc.

Client Notification/ Resolution:
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: [Signature] Date: 7/2/17

August 16, 2017

Dave Lennon
Moraine
766 Tower Dr
Fredonia, WI 53021

RE: Project: 5613 Riemer's Flowers
Pace Project No.: 10398434

Dear Dave Lennon:

Enclosed are the analytical results for sample(s) received by the laboratory on August 07, 2017. 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,



Sarah Platzer
sarah.platzer@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Moraine, Moraine
Tom Sweet, Moraine Environmental Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

Minnesota Certification IDs

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

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: UST-078

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: MN00064

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming 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

Wyoming via EPA Region 8 Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10398434001	SG-1	Air	08/04/17 11:22	08/07/17 12:35
10398434002	SG-1 CERT	Air	08/04/17 11:22	08/07/17 12:35
10398434003	SG-2	Air	08/04/17 12:12	08/07/17 12:35
10398434004	SG-2 CERT	Air	08/04/17 12:12	08/07/17 12:35
10398434005	SG-3	Air	08/04/17 13:30	08/07/17 12:35
10398434006	SG-3 CERT	Air	08/04/17 13:30	08/07/17 12:35

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SAMPLE ANALYTE COUNT

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10398434001	SG-1	TO-15	CH1	61	PASI-M
10398434002	SG-1 CERT	TO-15	EMC	61	PASI-M
10398434003	SG-2	TO-15	CH1	61	PASI-M
10398434004	SG-2 CERT	TO-15	NCK	61	PASI-M
10398434005	SG-3	TO-15	CH1	61	PASI-M
10398434006	SG-3 CERT	TO-15	NCK	61	PASI-M

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ANALYTICAL RESULTS

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

Sample: **SG-1** Lab ID: **10398434001** Collected: 08/04/17 11:22 Received: 08/07/17 12:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	126	ug/m3	4.2	1.3	1.75		08/11/17 02:58	67-64-1	
Benzene	11.9	ug/m3	0.57	0.23	1.75		08/11/17 02:58	71-43-2	
Benzyl chloride	<0.41	ug/m3	1.8	0.41	1.75		08/11/17 02:58	100-44-7	
Bromodichloromethane	<0.40	ug/m3	2.4	0.40	1.75		08/11/17 02:58	75-27-4	
Bromoform	<0.71	ug/m3	3.7	0.71	1.75		08/11/17 02:58	75-25-2	
Bromomethane	<0.36	ug/m3	1.4	0.36	1.75		08/11/17 02:58	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.79	0.18	1.75		08/11/17 02:58	106-99-0	
2-Butanone (MEK)	23.8	ug/m3	5.2	0.36	1.75		08/11/17 02:58	78-93-3	
Carbon disulfide	4.2	ug/m3	1.1	0.17	1.75		08/11/17 02:58	75-15-0	
Carbon tetrachloride	<0.51	ug/m3	1.1	0.51	1.75		08/11/17 02:58	56-23-5	
Chlorobenzene	<0.31	ug/m3	1.6	0.31	1.75		08/11/17 02:58	108-90-7	
Chloroethane	<0.36	ug/m3	0.94	0.36	1.75		08/11/17 02:58	75-00-3	
Chloroform	14.9	ug/m3	0.87	0.36	1.75		08/11/17 02:58	67-66-3	
Chloromethane	<0.19	ug/m3	0.74	0.19	1.75		08/11/17 02:58	74-87-3	
Cyclohexane	99.3	ug/m3	1.2	0.27	1.75		08/11/17 02:58	110-82-7	
Dibromochloromethane	<0.57	ug/m3	3.0	0.57	1.75		08/11/17 02:58	124-48-1	
1,2-Dibromoethane (EDB)	<0.52	ug/m3	2.7	0.52	1.75		08/11/17 02:58	106-93-4	
1,2-Dichlorobenzene	<0.32	ug/m3	2.1	0.32	1.75		08/11/17 02:58	95-50-1	
1,3-Dichlorobenzene	<0.25	ug/m3	2.1	0.25	1.75		08/11/17 02:58	541-73-1	
1,4-Dichlorobenzene	<0.36	ug/m3	2.1	0.36	1.75		08/11/17 02:58	106-46-7	
Dichlorodifluoromethane	1.3J	ug/m3	1.8	0.73	1.75		08/11/17 02:58	75-71-8	
1,1-Dichloroethane	<0.37	ug/m3	1.4	0.37	1.75		08/11/17 02:58	75-34-3	
1,2-Dichloroethane	<0.33	ug/m3	0.72	0.33	1.75		08/11/17 02:58	107-06-2	
1,1-Dichloroethene	<0.41	ug/m3	1.4	0.41	1.75		08/11/17 02:58	75-35-4	
cis-1,2-Dichloroethene	9.9	ug/m3	1.4	0.38	1.75		08/11/17 02:58	156-59-2	
trans-1,2-Dichloroethene	<0.34	ug/m3	1.4	0.34	1.75		08/11/17 02:58	156-60-5	
1,2-Dichloropropane	<0.39	ug/m3	1.6	0.39	1.75		08/11/17 02:58	78-87-5	
cis-1,3-Dichloropropene	<0.15	ug/m3	1.6	0.15	1.75		08/11/17 02:58	10061-01-5	
trans-1,3-Dichloropropene	<0.24	ug/m3	1.6	0.24	1.75		08/11/17 02:58	10061-02-6	
Dichlorotetrafluoroethane	<0.77	ug/m3	2.5	0.77	1.75		08/11/17 02:58	76-14-2	
Ethanol	3.6	ug/m3	1.7	0.81	1.75		08/11/17 02:58	64-17-5	
Ethyl acetate	<0.29	ug/m3	1.3	0.29	1.75		08/11/17 02:58	141-78-6	
Ethylbenzene	24.5	ug/m3	1.5	0.30	1.75		08/11/17 02:58	100-41-4	
4-Ethyltoluene	15.6	ug/m3	1.8	0.26	1.75		08/11/17 02:58	622-96-8	
n-Heptane	46.1	ug/m3	1.5	0.37	1.75		08/11/17 02:58	142-82-5	
Hexachloro-1,3-butadiene	<0.72	ug/m3	9.5	0.72	1.75		08/11/17 02:58	87-68-3	
n-Hexane	38.1	ug/m3	1.3	0.26	1.75		08/11/17 02:58	110-54-3	
2-Hexanone	<0.39	ug/m3	7.3	0.39	1.75		08/11/17 02:58	591-78-6	
Methylene Chloride	9.8	ug/m3	6.2	2.7	1.75		08/11/17 02:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.42	ug/m3	7.3	0.42	1.75		08/11/17 02:58	108-10-1	
Methyl-tert-butyl ether	<0.55	ug/m3	6.4	0.55	1.75		08/11/17 02:58	1634-04-4	
Naphthalene	9.9	ug/m3	4.7	1.0	1.75		08/11/17 02:58	91-20-3	
2-Propanol	3.4J	ug/m3	4.4	0.61	1.75		08/11/17 02:58	67-63-0	
Propylene	76.9	ug/m3	0.61	0.19	1.75		08/11/17 02:58	115-07-1	
Styrene	3.0	ug/m3	1.5	0.24	1.75		08/11/17 02:58	100-42-5	
1,1,2,2-Tetrachloroethane	<0.46	ug/m3	1.2	0.46	1.75		08/11/17 02:58	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

Sample: SG-1 **Lab ID: 10398434001** Collected: 08/04/17 11:22 Received: 08/07/17 12:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	314	ug/m3	1.2	0.50	1.75		08/11/17 02:58	127-18-4	
Tetrahydrofuran	<0.18	ug/m3	1.0	0.18	1.75		08/11/17 02:58	109-99-9	
Toluene	87.9	ug/m3	1.3	0.26	1.75		08/11/17 02:58	108-88-3	
1,2,4-Trichlorobenzene	<1.7	ug/m3	6.6	1.7	1.75		08/11/17 02:58	120-82-1	
1,1,1-Trichloroethane	3.8	ug/m3	1.9	0.60	1.75		08/11/17 02:58	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/m3	0.96	0.39	1.75		08/11/17 02:58	79-00-5	
Trichloroethene	4.3	ug/m3	0.96	0.36	1.75		08/11/17 02:58	79-01-6	
Trichlorofluoromethane	2.5	ug/m3	2.0	0.73	1.75		08/11/17 02:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.63	ug/m3	2.8	0.63	1.75		08/11/17 02:58	76-13-1	
1,2,4-Trimethylbenzene	49.0	ug/m3	1.7	0.30	1.75		08/11/17 02:58	95-63-6	
1,3,5-Trimethylbenzene	12.1	ug/m3	1.7	0.41	1.75		08/11/17 02:58	108-67-8	
Vinyl acetate	1.9	ug/m3	1.3	0.23	1.75		08/11/17 02:58	108-05-4	
Vinyl chloride	<0.22	ug/m3	0.46	0.22	1.75		08/11/17 02:58	75-01-4	
m&p-Xylene	78.0	ug/m3	3.1	0.61	1.75		08/11/17 02:58	179601-23-1	
o-Xylene	27.4	ug/m3	1.5	0.31	1.75		08/11/17 02:58	95-47-6	

Sample: SG-1 CERT **Lab ID: 10398434002** Collected: 08/04/17 11:22 Received: 08/07/17 12:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification Analytical Method: TO-15									
Acetone	<0.83	ug/m3	2.4	0.83	1		07/07/17 10:27	67-64-1	
Benzene	<0.12	ug/m3	0.32	0.12	1		07/07/17 10:27	71-43-2	
Benzyl chloride	<0.17	ug/m3	1.0	0.17	1		07/07/17 10:27	100-44-7	
Bromodichloromethane	<0.19	ug/m3	1.4	0.19	1		07/07/17 10:27	75-27-4	
Bromoform	<0.90	ug/m3	2.1	0.90	1		07/07/17 10:27	75-25-2	
Bromomethane	<0.31	ug/m3	0.79	0.31	1		07/07/17 10:27	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.45	0.18	1		07/07/17 10:27	106-99-0	
2-Butanone (MEK)	<0.23	ug/m3	3.0	0.23	1		07/07/17 10:27	78-93-3	
Carbon disulfide	<0.10	ug/m3	0.63	0.10	1		07/07/17 10:27	75-15-0	
Carbon tetrachloride	<0.19	ug/m3	0.64	0.19	1		07/07/17 10:27	56-23-5	
Chlorobenzene	<0.13	ug/m3	0.94	0.13	1		07/07/17 10:27	108-90-7	
Chloroethane	<0.19	ug/m3	0.54	0.19	1		07/07/17 10:27	75-00-3	
Chloroform	<0.19	ug/m3	0.50	0.19	1		07/07/17 10:27	67-66-3	
Chloromethane	<0.11	ug/m3	0.42	0.11	1		07/07/17 10:27	74-87-3	
Cyclohexane	<0.32	ug/m3	0.70	0.32	1		07/07/17 10:27	110-82-7	
Dibromochloromethane	<0.86	ug/m3	1.7	0.86	1		07/07/17 10:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.77	ug/m3	1.6	0.77	1		07/07/17 10:27	106-93-4	
1,2-Dichlorobenzene	<0.51	ug/m3	1.2	0.51	1		07/07/17 10:27	95-50-1	
1,3-Dichlorobenzene	<0.53	ug/m3	1.2	0.53	1		07/07/17 10:27	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/m3	1.2	0.50	1		07/07/17 10:27	106-46-7	
Dichlorodifluoromethane	<0.48	ug/m3	1.0	0.48	1		07/07/17 10:27	75-71-8	
1,1-Dichloroethane	<0.16	ug/m3	0.82	0.16	1		07/07/17 10:27	75-34-3	
1,2-Dichloroethane	<0.20	ug/m3	0.41	0.20	1		07/07/17 10:27	107-06-2	

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ANALYTICAL RESULTS

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

Sample: **SG-1 CERT** Lab ID: **10398434002** Collected: 08/04/17 11:22 Received: 08/07/17 12:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15							
1,1-Dichloroethene	<0.24	ug/m3	0.81	0.24	1		07/07/17 10:27	75-35-4	
cis-1,2-Dichloroethene	<0.25	ug/m3	0.81	0.25	1		07/07/17 10:27	156-59-2	
trans-1,2-Dichloroethene	<0.38	ug/m3	0.81	0.38	1		07/07/17 10:27	156-60-5	
1,2-Dichloropropane	<0.27	ug/m3	0.94	0.27	1		07/07/17 10:27	78-87-5	
cis-1,3-Dichloropropene	<0.37	ug/m3	0.92	0.37	1		07/07/17 10:27	10061-01-5	
trans-1,3-Dichloropropene	<0.26	ug/m3	0.92	0.26	1		07/07/17 10:27	10061-02-6	
Dichlorotetrafluoroethane	<0.31	ug/m3	1.4	0.31	1		07/07/17 10:27	76-14-2	
Ethanol	<0.26	ug/m3	0.96	0.26	1		07/07/17 10:27	64-17-5	
Ethyl acetate	<0.35	ug/m3	0.73	0.35	1		07/07/17 10:27	141-78-6	
Ethylbenzene	<0.42	ug/m3	0.88	0.42	1		07/07/17 10:27	100-41-4	
4-Ethyltoluene	<0.19	ug/m3	1.0	0.19	1		07/07/17 10:27	622-96-8	
n-Heptane	<0.28	ug/m3	0.83	0.28	1		07/07/17 10:27	142-82-5	
Hexachloro-1,3-butadiene	<0.65	ug/m3	2.2	0.65	1		07/07/17 10:27	87-68-3	
n-Hexane	<0.36	ug/m3	1.8	0.36	1		07/07/17 10:27	110-54-3	
2-Hexanone	<0.41	ug/m3	4.2	0.41	1		07/07/17 10:27	591-78-6	
Methylene Chloride	<0.54	ug/m3	8.8	0.54	1		07/07/17 10:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.22	ug/m3	4.2	0.22	1		07/07/17 10:27	108-10-1	
Methyl-tert-butyl ether	<0.30	ug/m3	3.7	0.30	1		07/07/17 10:27	1634-04-4	
Naphthalene	<0.30	ug/m3	2.7	0.30	1		07/07/17 10:27	91-20-3	
2-Propanol	<0.24	ug/m3	2.5	0.24	1		07/07/17 10:27	67-63-0	
Propylene	<0.14	ug/m3	0.35	0.14	1		07/07/17 10:27	115-07-1	
Styrene	<0.19	ug/m3	0.87	0.19	1		07/07/17 10:27	100-42-5	
1,1,2,2-Tetrachloroethane	<0.33	ug/m3	0.70	0.33	1		07/07/17 10:27	79-34-5	
Tetrachloroethene	<0.28	ug/m3	0.69	0.28	1		07/07/17 10:27	127-18-4	
Tetrahydrofuran	<0.12	ug/m3	0.60	0.12	1		07/07/17 10:27	109-99-9	
Toluene	<0.15	ug/m3	0.77	0.15	1		07/07/17 10:27	108-88-3	
1,2,4-Trichlorobenzene	<0.91	ug/m3	3.8	0.91	1		07/07/17 10:27	120-82-1	
1,1,1-Trichloroethane	<0.25	ug/m3	1.1	0.25	1		07/07/17 10:27	71-55-6	
1,1,2-Trichloroethane	<0.25	ug/m3	0.55	0.25	1		07/07/17 10:27	79-00-5	
Trichloroethene	<0.28	ug/m3	0.55	0.28	1		07/07/17 10:27	79-01-6	
Trichlorofluoromethane	<0.13	ug/m3	1.1	0.13	1		07/07/17 10:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/m3	1.6	0.30	1		07/07/17 10:27	76-13-1	
1,2,4-Trimethylbenzene	<0.12	ug/m3	1.0	0.12	1		07/07/17 10:27	95-63-6	
1,3,5-Trimethylbenzene	<0.18	ug/m3	1.0	0.18	1		07/07/17 10:27	108-67-8	
Vinyl acetate	<0.33	ug/m3	0.72	0.33	1		07/07/17 10:27	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.26	0.20	1		07/07/17 10:27	75-01-4	
m&p-Xylene	<0.79	ug/m3	1.8	0.79	1		07/07/17 10:27	179601-23-1	
o-Xylene	<0.35	ug/m3	0.88	0.35	1		07/07/17 10:27	95-47-6	

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ANALYTICAL RESULTS

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

Sample: SG-2 **Lab ID: 10398434003** Collected: 08/04/17 12:12 Received: 08/07/17 12:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	390	ug/m3	7.5	2.2	3.1		08/11/17 03:34	67-64-1	
Benzene	165	ug/m3	1.0	0.40	3.1		08/11/17 03:34	71-43-2	
Benzyl chloride	<0.73	ug/m3	3.3	0.73	3.1		08/11/17 03:34	100-44-7	
Bromodichloromethane	<0.71	ug/m3	4.2	0.71	3.1		08/11/17 03:34	75-27-4	
Bromoform	<1.3	ug/m3	6.5	1.3	3.1		08/11/17 03:34	75-25-2	
Bromomethane	<0.64	ug/m3	2.4	0.64	3.1		08/11/17 03:34	74-83-9	
1,3-Butadiene	<0.32	ug/m3	1.4	0.32	3.1		08/11/17 03:34	106-99-0	
2-Butanone (MEK)	143	ug/m3	9.3	0.63	3.1		08/11/17 03:34	78-93-3	
Carbon disulfide	14.3	ug/m3	2.0	0.31	3.1		08/11/17 03:34	75-15-0	
Carbon tetrachloride	<0.91	ug/m3	2.0	0.91	3.1		08/11/17 03:34	56-23-5	
Chlorobenzene	<0.55	ug/m3	2.9	0.55	3.1		08/11/17 03:34	108-90-7	
Chloroethane	<0.63	ug/m3	1.7	0.63	3.1		08/11/17 03:34	75-00-3	
Chloroform	1.8	ug/m3	1.5	0.64	3.1		08/11/17 03:34	67-66-3	
Chloromethane	<0.33	ug/m3	1.3	0.33	3.1		08/11/17 03:34	74-87-3	
Cyclohexane	98.1	ug/m3	2.2	0.48	3.1		08/11/17 03:34	110-82-7	
Dibromochloromethane	<1.0	ug/m3	5.4	1.0	3.1		08/11/17 03:34	124-48-1	
1,2-Dibromoethane (EDB)	<0.92	ug/m3	4.8	0.92	3.1		08/11/17 03:34	106-93-4	
1,2-Dichlorobenzene	<0.57	ug/m3	3.8	0.57	3.1		08/11/17 03:34	95-50-1	
1,3-Dichlorobenzene	<0.45	ug/m3	3.8	0.45	3.1		08/11/17 03:34	541-73-1	
1,4-Dichlorobenzene	<0.64	ug/m3	3.8	0.64	3.1		08/11/17 03:34	106-46-7	
Dichlorodifluoromethane	<1.3	ug/m3	3.1	1.3	3.1		08/11/17 03:34	75-71-8	
1,1-Dichloroethane	<0.66	ug/m3	2.5	0.66	3.1		08/11/17 03:34	75-34-3	
1,2-Dichloroethane	<0.58	ug/m3	1.3	0.58	3.1		08/11/17 03:34	107-06-2	
1,1-Dichloroethene	<0.73	ug/m3	2.5	0.73	3.1		08/11/17 03:34	75-35-4	
cis-1,2-Dichloroethene	28.3	ug/m3	2.5	0.67	3.1		08/11/17 03:34	156-59-2	
trans-1,2-Dichloroethene	2.2J	ug/m3	2.5	0.60	3.1		08/11/17 03:34	156-60-5	
1,2-Dichloropropane	<0.69	ug/m3	2.9	0.69	3.1		08/11/17 03:34	78-87-5	
cis-1,3-Dichloropropene	<0.27	ug/m3	2.9	0.27	3.1		08/11/17 03:34	10061-01-5	
trans-1,3-Dichloropropene	<0.43	ug/m3	2.9	0.43	3.1		08/11/17 03:34	10061-02-6	
Dichlorotetrafluoroethane	<1.4	ug/m3	4.4	1.4	3.1		08/11/17 03:34	76-14-2	
Ethanol	11.6	ug/m3	3.0	1.4	3.1		08/11/17 03:34	64-17-5	
Ethyl acetate	<0.52	ug/m3	2.3	0.52	3.1		08/11/17 03:34	141-78-6	
Ethylbenzene	47.2	ug/m3	2.7	0.53	3.1		08/11/17 03:34	100-41-4	
4-Ethyltoluene	26.0	ug/m3	3.1	0.46	3.1		08/11/17 03:34	622-96-8	
n-Heptane	108	ug/m3	2.6	0.65	3.1		08/11/17 03:34	142-82-5	
Hexachloro-1,3-butadiene	<1.3	ug/m3	16.8	1.3	3.1		08/11/17 03:34	87-68-3	
n-Hexane	128	ug/m3	2.2	0.46	3.1		08/11/17 03:34	110-54-3	
2-Hexanone	<0.69	ug/m3	12.9	0.69	3.1		08/11/17 03:34	591-78-6	
Methylene Chloride	14.6	ug/m3	10.9	4.7	3.1		08/11/17 03:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	8.3J	ug/m3	12.9	0.75	3.1		08/11/17 03:34	108-10-1	
Methyl-tert-butyl ether	<0.97	ug/m3	11.4	0.97	3.1		08/11/17 03:34	1634-04-4	
Naphthalene	14.7	ug/m3	8.2	1.8	3.1		08/11/17 03:34	91-20-3	
2-Propanol	7.9	ug/m3	7.8	1.1	3.1		08/11/17 03:34	67-63-0	
Propylene	282	ug/m3	1.1	0.34	3.1		08/11/17 03:34	115-07-1	E
Styrene	48.6	ug/m3	2.7	0.42	3.1		08/11/17 03:34	100-42-5	
1,1,2,2-Tetrachloroethane	<0.81	ug/m3	2.2	0.81	3.1		08/11/17 03:34	79-34-5	

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ANALYTICAL RESULTS

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

Sample: SG-2 **Lab ID: 10398434003** Collected: 08/04/17 12:12 Received: 08/07/17 12:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	210	ug/m3	2.1	0.89	3.1		08/11/17 03:34	127-18-4	
Tetrahydrofuran	2.3	ug/m3	1.9	0.33	3.1		08/11/17 03:34	109-99-9	
Toluene	230	ug/m3	2.4	0.46	3.1		08/11/17 03:34	108-88-3	
1,2,4-Trichlorobenzene	<3.0	ug/m3	11.7	3.0	3.1		08/11/17 03:34	120-82-1	
1,1,1-Trichloroethane	<1.1	ug/m3	3.4	1.1	3.1		08/11/17 03:34	71-55-6	
1,1,2-Trichloroethane	<0.70	ug/m3	1.7	0.70	3.1		08/11/17 03:34	79-00-5	
Trichloroethene	23.1	ug/m3	1.7	0.63	3.1		08/11/17 03:34	79-01-6	
Trichlorofluoromethane	<1.3	ug/m3	3.5	1.3	3.1		08/11/17 03:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	<1.1	ug/m3	5.0	1.1	3.1		08/11/17 03:34	76-13-1	
1,2,4-Trimethylbenzene	75.7	ug/m3	3.1	0.53	3.1		08/11/17 03:34	95-63-6	
1,3,5-Trimethylbenzene	23.0	ug/m3	3.1	0.73	3.1		08/11/17 03:34	108-67-8	
Vinyl acetate	8.8	ug/m3	2.2	0.40	3.1		08/11/17 03:34	108-05-4	
Vinyl chloride	<0.39	ug/m3	0.81	0.39	3.1		08/11/17 03:34	75-01-4	
m&p-Xylene	144	ug/m3	5.5	1.1	3.1		08/11/17 03:34	179601-23-1	
o-Xylene	61.2	ug/m3	2.7	0.55	3.1		08/11/17 03:34	95-47-6	

Sample: SG-2 CERT **Lab ID: 10398434004** Collected: 08/04/17 12:12 Received: 08/07/17 12:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification Analytical Method: TO-15									
Acetone	<0.83	ug/m3	2.4	0.83	1		07/10/17 14:15	67-64-1	
Benzene	<0.12	ug/m3	0.32	0.12	1		07/10/17 14:15	71-43-2	
Benzyl chloride	<0.17	ug/m3	1.0	0.17	1		07/10/17 14:15	100-44-7	
Bromodichloromethane	<0.19	ug/m3	1.4	0.19	1		07/10/17 14:15	75-27-4	
Bromoform	<0.90	ug/m3	2.1	0.90	1		07/10/17 14:15	75-25-2	
Bromomethane	<0.31	ug/m3	0.79	0.31	1		07/10/17 14:15	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.45	0.18	1		07/10/17 14:15	106-99-0	
2-Butanone (MEK)	<0.23	ug/m3	3.0	0.23	1		07/10/17 14:15	78-93-3	
Carbon disulfide	<0.10	ug/m3	0.63	0.10	1		07/10/17 14:15	75-15-0	
Carbon tetrachloride	<0.19	ug/m3	0.64	0.19	1		07/10/17 14:15	56-23-5	
Chlorobenzene	<0.13	ug/m3	0.94	0.13	1		07/10/17 14:15	108-90-7	
Chloroethane	<0.19	ug/m3	0.54	0.19	1		07/10/17 14:15	75-00-3	
Chloroform	<0.19	ug/m3	0.50	0.19	1		07/10/17 14:15	67-66-3	
Chloromethane	<0.11	ug/m3	0.42	0.11	1		07/10/17 14:15	74-87-3	
Cyclohexane	<0.32	ug/m3	0.70	0.32	1		07/10/17 14:15	110-82-7	
Dibromochloromethane	<0.86	ug/m3	1.7	0.86	1		07/10/17 14:15	124-48-1	
1,2-Dibromoethane (EDB)	<0.77	ug/m3	1.6	0.77	1		07/10/17 14:15	106-93-4	
1,2-Dichlorobenzene	<0.51	ug/m3	1.2	0.51	1		07/10/17 14:15	95-50-1	
1,3-Dichlorobenzene	<0.53	ug/m3	1.2	0.53	1		07/10/17 14:15	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/m3	1.2	0.50	1		07/10/17 14:15	106-46-7	
Dichlorodifluoromethane	<0.48	ug/m3	1.0	0.48	1		07/10/17 14:15	75-71-8	
1,1-Dichloroethane	<0.16	ug/m3	0.82	0.16	1		07/10/17 14:15	75-34-3	
1,2-Dichloroethane	<0.20	ug/m3	0.41	0.20	1		07/10/17 14:15	107-06-2	

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ANALYTICAL RESULTS

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

Sample: **SG-2 CERT** Lab ID: **10398434004** Collected: 08/04/17 12:12 Received: 08/07/17 12:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15							
1,1-Dichloroethene	<0.24	ug/m3	0.81	0.24	1		07/10/17 14:15	75-35-4	
cis-1,2-Dichloroethene	<0.25	ug/m3	0.81	0.25	1		07/10/17 14:15	156-59-2	
trans-1,2-Dichloroethene	<0.38	ug/m3	0.81	0.38	1		07/10/17 14:15	156-60-5	
1,2-Dichloropropane	<0.27	ug/m3	0.94	0.27	1		07/10/17 14:15	78-87-5	
cis-1,3-Dichloropropene	<0.37	ug/m3	0.92	0.37	1		07/10/17 14:15	10061-01-5	
trans-1,3-Dichloropropene	<0.26	ug/m3	0.92	0.26	1		07/10/17 14:15	10061-02-6	
Dichlorotetrafluoroethane	<0.31	ug/m3	1.4	0.31	1		07/10/17 14:15	76-14-2	
Ethanol	<0.26	ug/m3	0.96	0.26	1		07/10/17 14:15	64-17-5	
Ethyl acetate	<0.35	ug/m3	0.73	0.35	1		07/10/17 14:15	141-78-6	
Ethylbenzene	<0.42	ug/m3	0.88	0.42	1		07/10/17 14:15	100-41-4	
4-Ethyltoluene	<0.19	ug/m3	1.0	0.19	1		07/10/17 14:15	622-96-8	
n-Heptane	<0.28	ug/m3	0.83	0.28	1		07/10/17 14:15	142-82-5	
Hexachloro-1,3-butadiene	<0.65	ug/m3	2.2	0.65	1		07/10/17 14:15	87-68-3	
n-Hexane	<0.36	ug/m3	0.72	0.36	1		07/10/17 14:15	110-54-3	
2-Hexanone	<0.41	ug/m3	4.2	0.41	1		07/10/17 14:15	591-78-6	
Methylene Chloride	<0.54	ug/m3	3.5	0.54	1		07/10/17 14:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.22	ug/m3	4.2	0.22	1		07/10/17 14:15	108-10-1	
Methyl-tert-butyl ether	<0.30	ug/m3	3.7	0.30	1		07/10/17 14:15	1634-04-4	
Naphthalene	<0.30	ug/m3	2.7	0.30	1		07/10/17 14:15	91-20-3	
2-Propanol	<0.24	ug/m3	2.5	0.24	1		07/10/17 14:15	67-63-0	
Propylene	<0.14	ug/m3	0.35	0.14	1		07/10/17 14:15	115-07-1	
Styrene	<0.19	ug/m3	0.87	0.19	1		07/10/17 14:15	100-42-5	
1,1,2,2-Tetrachloroethane	<0.33	ug/m3	0.70	0.33	1		07/10/17 14:15	79-34-5	
Tetrachloroethene	<0.28	ug/m3	0.69	0.28	1		07/10/17 14:15	127-18-4	
Tetrahydrofuran	<0.12	ug/m3	0.60	0.12	1		07/10/17 14:15	109-99-9	
Toluene	<0.15	ug/m3	0.77	0.15	1		07/10/17 14:15	108-88-3	
1,2,4-Trichlorobenzene	<0.91	ug/m3	3.8	0.91	1		07/10/17 14:15	120-82-1	
1,1,1-Trichloroethane	<0.25	ug/m3	1.1	0.25	1		07/10/17 14:15	71-55-6	
1,1,2-Trichloroethane	<0.25	ug/m3	0.55	0.25	1		07/10/17 14:15	79-00-5	
Trichloroethene	<0.28	ug/m3	0.55	0.28	1		07/10/17 14:15	79-01-6	
Trichlorofluoromethane	<0.13	ug/m3	1.1	0.13	1		07/10/17 14:15	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/m3	1.6	0.30	1		07/10/17 14:15	76-13-1	
1,2,4-Trimethylbenzene	<0.12	ug/m3	1.0	0.12	1		07/10/17 14:15	95-63-6	
1,3,5-Trimethylbenzene	<0.18	ug/m3	1.0	0.18	1		07/10/17 14:15	108-67-8	
Vinyl acetate	<0.33	ug/m3	0.72	0.33	1		07/10/17 14:15	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.26	0.20	1		07/10/17 14:15	75-01-4	
m&p-Xylene	<0.79	ug/m3	1.8	0.79	1		07/10/17 14:15	179601-23-1	
o-Xylene	<0.35	ug/m3	0.88	0.35	1		07/10/17 14:15	95-47-6	

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ANALYTICAL RESULTS

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

Sample: SG-3 **Lab ID: 10398434005** Collected: 08/04/17 13:30 Received: 08/07/17 12:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	291	ug/m3	4.2	1.3	1.75		08/11/17 04:09	67-64-1	
Benzene	17.0	ug/m3	0.57	0.23	1.75		08/11/17 04:09	71-43-2	
Benzyl chloride	<0.41	ug/m3	1.8	0.41	1.75		08/11/17 04:09	100-44-7	
Bromodichloromethane	<0.40	ug/m3	2.4	0.40	1.75		08/11/17 04:09	75-27-4	
Bromoform	<0.71	ug/m3	3.7	0.71	1.75		08/11/17 04:09	75-25-2	
Bromomethane	<0.36	ug/m3	1.4	0.36	1.75		08/11/17 04:09	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.79	0.18	1.75		08/11/17 04:09	106-99-0	
2-Butanone (MEK)	80.7	ug/m3	5.2	0.36	1.75		08/11/17 04:09	78-93-3	
Carbon disulfide	3.5	ug/m3	1.1	0.17	1.75		08/11/17 04:09	75-15-0	
Carbon tetrachloride	<0.51	ug/m3	1.1	0.51	1.75		08/11/17 04:09	56-23-5	
Chlorobenzene	<0.31	ug/m3	1.6	0.31	1.75		08/11/17 04:09	108-90-7	
Chloroethane	<0.36	ug/m3	0.94	0.36	1.75		08/11/17 04:09	75-00-3	
Chloroform	12.8	ug/m3	0.87	0.36	1.75		08/11/17 04:09	67-66-3	
Chloromethane	<0.19	ug/m3	0.74	0.19	1.75		08/11/17 04:09	74-87-3	
Cyclohexane	60.5	ug/m3	1.2	0.27	1.75		08/11/17 04:09	110-82-7	
Dibromochloromethane	<0.57	ug/m3	3.0	0.57	1.75		08/11/17 04:09	124-48-1	
1,2-Dibromoethane (EDB)	<0.52	ug/m3	2.7	0.52	1.75		08/11/17 04:09	106-93-4	
1,2-Dichlorobenzene	<0.32	ug/m3	2.1	0.32	1.75		08/11/17 04:09	95-50-1	
1,3-Dichlorobenzene	<0.25	ug/m3	2.1	0.25	1.75		08/11/17 04:09	541-73-1	
1,4-Dichlorobenzene	<0.36	ug/m3	2.1	0.36	1.75		08/11/17 04:09	106-46-7	
Dichlorodifluoromethane	<0.73	ug/m3	1.8	0.73	1.75		08/11/17 04:09	75-71-8	
1,1-Dichloroethane	<0.37	ug/m3	1.4	0.37	1.75		08/11/17 04:09	75-34-3	
1,2-Dichloroethane	<0.33	ug/m3	0.72	0.33	1.75		08/11/17 04:09	107-06-2	
1,1-Dichloroethene	<0.41	ug/m3	1.4	0.41	1.75		08/11/17 04:09	75-35-4	
cis-1,2-Dichloroethene	<0.38	ug/m3	1.4	0.38	1.75		08/11/17 04:09	156-59-2	
trans-1,2-Dichloroethene	<0.34	ug/m3	1.4	0.34	1.75		08/11/17 04:09	156-60-5	
1,2-Dichloropropane	<0.39	ug/m3	1.6	0.39	1.75		08/11/17 04:09	78-87-5	
cis-1,3-Dichloropropene	<0.15	ug/m3	1.6	0.15	1.75		08/11/17 04:09	10061-01-5	
trans-1,3-Dichloropropene	<0.24	ug/m3	1.6	0.24	1.75		08/11/17 04:09	10061-02-6	
Dichlorotetrafluoroethane	<0.77	ug/m3	2.5	0.77	1.75		08/11/17 04:09	76-14-2	
Ethanol	12.5	ug/m3	1.7	0.81	1.75		08/11/17 04:09	64-17-5	
Ethyl acetate	<0.29	ug/m3	1.3	0.29	1.75		08/11/17 04:09	141-78-6	
Ethylbenzene	24.1	ug/m3	1.5	0.30	1.75		08/11/17 04:09	100-41-4	
4-Ethyltoluene	13.6	ug/m3	1.8	0.26	1.75		08/11/17 04:09	622-96-8	
n-Heptane	52.2	ug/m3	1.5	0.37	1.75		08/11/17 04:09	142-82-5	
Hexachloro-1,3-butadiene	<0.72	ug/m3	9.5	0.72	1.75		08/11/17 04:09	87-68-3	
n-Hexane	57.3	ug/m3	1.3	0.26	1.75		08/11/17 04:09	110-54-3	
2-Hexanone	3.9J	ug/m3	7.3	0.39	1.75		08/11/17 04:09	591-78-6	
Methylene Chloride	<2.7	ug/m3	6.2	2.7	1.75		08/11/17 04:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	3.7J	ug/m3	7.3	0.42	1.75		08/11/17 04:09	108-10-1	
Methyl-tert-butyl ether	<0.55	ug/m3	6.4	0.55	1.75		08/11/17 04:09	1634-04-4	
Naphthalene	10.0	ug/m3	4.7	1.0	1.75		08/11/17 04:09	91-20-3	
2-Propanol	<0.61	ug/m3	4.4	0.61	1.75		08/11/17 04:09	67-63-0	
Propylene	<0.19	ug/m3	0.61	0.19	1.75		08/11/17 04:09	115-07-1	
Styrene	14.7	ug/m3	1.5	0.24	1.75		08/11/17 04:09	100-42-5	
1,1,2,2-Tetrachloroethane	<0.46	ug/m3	1.2	0.46	1.75		08/11/17 04:09	79-34-5	

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ANALYTICAL RESULTS

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

Sample: SG-3 **Lab ID: 10398434005** Collected: 08/04/17 13:30 Received: 08/07/17 12:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	273	ug/m3	1.2	0.50	1.75		08/11/17 04:09	127-18-4	
Tetrahydrofuran	<0.18	ug/m3	1.0	0.18	1.75		08/11/17 04:09	109-99-9	
Toluene	64.7	ug/m3	1.3	0.26	1.75		08/11/17 04:09	108-88-3	
1,2,4-Trichlorobenzene	<1.7	ug/m3	6.6	1.7	1.75		08/11/17 04:09	120-82-1	
1,1,1-Trichloroethane	2.3	ug/m3	1.9	0.60	1.75		08/11/17 04:09	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/m3	0.96	0.39	1.75		08/11/17 04:09	79-00-5	
Trichloroethene	3.0	ug/m3	0.96	0.36	1.75		08/11/17 04:09	79-01-6	
Trichlorofluoromethane	<0.73	ug/m3	2.0	0.73	1.75		08/11/17 04:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.63	ug/m3	2.8	0.63	1.75		08/11/17 04:09	76-13-1	
1,2,4-Trimethylbenzene	47.7	ug/m3	1.7	0.30	1.75		08/11/17 04:09	95-63-6	
1,3,5-Trimethylbenzene	13.8	ug/m3	1.7	0.41	1.75		08/11/17 04:09	108-67-8	
Vinyl acetate	<0.23	ug/m3	1.3	0.23	1.75		08/11/17 04:09	108-05-4	
Vinyl chloride	<0.22	ug/m3	0.46	0.22	1.75		08/11/17 04:09	75-01-4	
m&p-Xylene	60.6	ug/m3	3.1	0.61	1.75		08/11/17 04:09	179601-23-1	
o-Xylene	24.1	ug/m3	1.5	0.31	1.75		08/11/17 04:09	95-47-6	

Sample: SG-3 CERT **Lab ID: 10398434006** Collected: 08/04/17 13:30 Received: 08/07/17 12:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification Analytical Method: TO-15									
Acetone	<0.83	ug/m3	2.4	0.83	1		07/10/17 13:46	67-64-1	
Benzene	<0.12	ug/m3	0.32	0.12	1		07/10/17 13:46	71-43-2	
Benzyl chloride	<0.17	ug/m3	1.0	0.17	1		07/10/17 13:46	100-44-7	
Bromodichloromethane	<0.19	ug/m3	1.4	0.19	1		07/10/17 13:46	75-27-4	
Bromoform	<0.90	ug/m3	2.1	0.90	1		07/10/17 13:46	75-25-2	
Bromomethane	<0.31	ug/m3	0.79	0.31	1		07/10/17 13:46	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.45	0.18	1		07/10/17 13:46	106-99-0	
2-Butanone (MEK)	<0.23	ug/m3	3.0	0.23	1		07/10/17 13:46	78-93-3	
Carbon disulfide	<0.10	ug/m3	0.63	0.10	1		07/10/17 13:46	75-15-0	
Carbon tetrachloride	<0.19	ug/m3	0.64	0.19	1		07/10/17 13:46	56-23-5	
Chlorobenzene	<0.13	ug/m3	0.94	0.13	1		07/10/17 13:46	108-90-7	
Chloroethane	<0.19	ug/m3	0.54	0.19	1		07/10/17 13:46	75-00-3	
Chloroform	<0.19	ug/m3	0.50	0.19	1		07/10/17 13:46	67-66-3	
Chloromethane	<0.11	ug/m3	0.42	0.11	1		07/10/17 13:46	74-87-3	
Cyclohexane	<0.32	ug/m3	0.70	0.32	1		07/10/17 13:46	110-82-7	
Dibromochloromethane	<0.86	ug/m3	1.7	0.86	1		07/10/17 13:46	124-48-1	
1,2-Dibromoethane (EDB)	<0.77	ug/m3	1.6	0.77	1		07/10/17 13:46	106-93-4	
1,2-Dichlorobenzene	<0.51	ug/m3	1.2	0.51	1		07/10/17 13:46	95-50-1	
1,3-Dichlorobenzene	<0.53	ug/m3	1.2	0.53	1		07/10/17 13:46	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/m3	1.2	0.50	1		07/10/17 13:46	106-46-7	
Dichlorodifluoromethane	<0.48	ug/m3	1.0	0.48	1		07/10/17 13:46	75-71-8	
1,1-Dichloroethane	<0.16	ug/m3	0.82	0.16	1		07/10/17 13:46	75-34-3	
1,2-Dichloroethane	<0.20	ug/m3	0.41	0.20	1		07/10/17 13:46	107-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

Sample: SG-3 CERT **Lab ID: 10398434006** Collected: 08/04/17 13:30 Received: 08/07/17 12:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15							
1,1-Dichloroethene	<0.24	ug/m3	0.81	0.24	1		07/10/17 13:46	75-35-4	
cis-1,2-Dichloroethene	<0.25	ug/m3	0.81	0.25	1		07/10/17 13:46	156-59-2	
trans-1,2-Dichloroethene	<0.38	ug/m3	0.81	0.38	1		07/10/17 13:46	156-60-5	
1,2-Dichloropropane	<0.27	ug/m3	0.94	0.27	1		07/10/17 13:46	78-87-5	
cis-1,3-Dichloropropene	<0.37	ug/m3	0.92	0.37	1		07/10/17 13:46	10061-01-5	
trans-1,3-Dichloropropene	<0.26	ug/m3	0.92	0.26	1		07/10/17 13:46	10061-02-6	
Dichlorotetrafluoroethane	<0.31	ug/m3	1.4	0.31	1		07/10/17 13:46	76-14-2	
Ethanol	<0.26	ug/m3	0.96	0.26	1		07/10/17 13:46	64-17-5	
Ethyl acetate	<0.35	ug/m3	0.73	0.35	1		07/10/17 13:46	141-78-6	
Ethylbenzene	<0.42	ug/m3	0.88	0.42	1		07/10/17 13:46	100-41-4	
4-Ethyltoluene	<0.19	ug/m3	1.0	0.19	1		07/10/17 13:46	622-96-8	
n-Heptane	<0.28	ug/m3	0.83	0.28	1		07/10/17 13:46	142-82-5	
Hexachloro-1,3-butadiene	<0.65	ug/m3	2.2	0.65	1		07/10/17 13:46	87-68-3	
n-Hexane	<0.36	ug/m3	0.72	0.36	1		07/10/17 13:46	110-54-3	
2-Hexanone	<0.41	ug/m3	4.2	0.41	1		07/10/17 13:46	591-78-6	
Methylene Chloride	<0.54	ug/m3	3.5	0.54	1		07/10/17 13:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.22	ug/m3	4.2	0.22	1		07/10/17 13:46	108-10-1	
Methyl-tert-butyl ether	<0.30	ug/m3	3.7	0.30	1		07/10/17 13:46	1634-04-4	
Naphthalene	<0.30	ug/m3	2.7	0.30	1		07/10/17 13:46	91-20-3	
2-Propanol	<0.24	ug/m3	2.5	0.24	1		07/10/17 13:46	67-63-0	
Propylene	<0.14	ug/m3	0.35	0.14	1		07/10/17 13:46	115-07-1	
Styrene	<0.19	ug/m3	0.87	0.19	1		07/10/17 13:46	100-42-5	
1,1,2,2-Tetrachloroethane	<0.33	ug/m3	0.70	0.33	1		07/10/17 13:46	79-34-5	
Tetrachloroethene	<0.28	ug/m3	0.69	0.28	1		07/10/17 13:46	127-18-4	
Tetrahydrofuran	<0.12	ug/m3	0.60	0.12	1		07/10/17 13:46	109-99-9	
Toluene	<0.15	ug/m3	0.77	0.15	1		07/10/17 13:46	108-88-3	
1,2,4-Trichlorobenzene	<0.91	ug/m3	3.8	0.91	1		07/10/17 13:46	120-82-1	
1,1,1-Trichloroethane	<0.25	ug/m3	1.1	0.25	1		07/10/17 13:46	71-55-6	
1,1,2-Trichloroethane	<0.25	ug/m3	0.55	0.25	1		07/10/17 13:46	79-00-5	
Trichloroethene	<0.28	ug/m3	0.55	0.28	1		07/10/17 13:46	79-01-6	
Trichlorofluoromethane	<0.13	ug/m3	1.1	0.13	1		07/10/17 13:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/m3	1.6	0.30	1		07/10/17 13:46	76-13-1	
1,2,4-Trimethylbenzene	<0.12	ug/m3	1.0	0.12	1		07/10/17 13:46	95-63-6	
1,3,5-Trimethylbenzene	<0.18	ug/m3	1.0	0.18	1		07/10/17 13:46	108-67-8	
Vinyl acetate	<0.33	ug/m3	0.72	0.33	1		07/10/17 13:46	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.26	0.20	1		07/10/17 13:46	75-01-4	
m&p-Xylene	<0.79	ug/m3	1.8	0.79	1		07/10/17 13:46	179601-23-1	
o-Xylene	<0.35	ug/m3	0.88	0.35	1		07/10/17 13:46	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

QC Batch: 490352

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 10398434001, 10398434003, 10398434005

METHOD BLANK: 2668142

Matrix: Air

Associated Lab Samples: 10398434001, 10398434003, 10398434005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.34	1.1	08/10/17 15:17	
1,1,2,2-Tetrachloroethane	ug/m3	<0.26	0.70	08/10/17 15:17	
1,1,2-Trichloroethane	ug/m3	<0.22	0.55	08/10/17 15:17	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.36	1.6	08/10/17 15:17	
1,1-Dichloroethane	ug/m3	<0.21	0.82	08/10/17 15:17	
1,1-Dichloroethene	ug/m3	<0.24	0.81	08/10/17 15:17	
1,2,4-Trichlorobenzene	ug/m3	<0.96	3.8	08/10/17 15:17	
1,2,4-Trimethylbenzene	ug/m3	<0.17	1.0	08/10/17 15:17	
1,2-Dibromoethane (EDB)	ug/m3	<0.30	1.6	08/10/17 15:17	
1,2-Dichlorobenzene	ug/m3	<0.18	1.2	08/10/17 15:17	
1,2-Dichloroethane	ug/m3	<0.19	0.41	08/10/17 15:17	
1,2-Dichloropropane	ug/m3	<0.22	0.94	08/10/17 15:17	
1,3,5-Trimethylbenzene	ug/m3	<0.24	1.0	08/10/17 15:17	
1,3-Butadiene	ug/m3	<0.10	0.45	08/10/17 15:17	
1,3-Dichlorobenzene	ug/m3	<0.14	1.2	08/10/17 15:17	
1,4-Dichlorobenzene	ug/m3	<0.20	1.2	08/10/17 15:17	
2-Butanone (MEK)	ug/m3	<0.20	3.0	08/10/17 15:17	
2-Hexanone	ug/m3	<0.22	4.2	08/10/17 15:17	
2-Propanol	ug/m3	<0.35	2.5	08/10/17 15:17	
4-Ethyltoluene	ug/m3	<0.15	1.0	08/10/17 15:17	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.24	4.2	08/10/17 15:17	
Acetone	ug/m3	<0.72	2.4	08/10/17 15:17	
Benzene	ug/m3	<0.13	0.32	08/10/17 15:17	
Benzyl chloride	ug/m3	<0.24	1.0	08/10/17 15:17	
Bromodichloromethane	ug/m3	<0.23	1.4	08/10/17 15:17	
Bromoform	ug/m3	<0.41	2.1	08/10/17 15:17	
Bromomethane	ug/m3	<0.21	0.79	08/10/17 15:17	
Carbon disulfide	ug/m3	<0.099	0.63	08/10/17 15:17	
Carbon tetrachloride	ug/m3	<0.29	0.64	08/10/17 15:17	
Chlorobenzene	ug/m3	<0.18	0.94	08/10/17 15:17	
Chloroethane	ug/m3	<0.20	0.54	08/10/17 15:17	
Chloroform	ug/m3	<0.21	0.50	08/10/17 15:17	
Chloromethane	ug/m3	<0.11	0.42	08/10/17 15:17	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	08/10/17 15:17	
cis-1,3-Dichloropropene	ug/m3	<0.087	0.92	08/10/17 15:17	
Cyclohexane	ug/m3	<0.16	0.70	08/10/17 15:17	
Dibromochloromethane	ug/m3	<0.33	1.7	08/10/17 15:17	
Dichlorodifluoromethane	ug/m3	<0.42	1.0	08/10/17 15:17	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	08/10/17 15:17	
Ethanol	ug/m3	<0.46	0.96	08/10/17 15:17	
Ethyl acetate	ug/m3	<0.17	0.73	08/10/17 15:17	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

METHOD BLANK: 2668142

Matrix: Air

Associated Lab Samples: 10398434001, 10398434003, 10398434005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.17	0.88	08/10/17 15:17	
Hexachloro-1,3-butadiene	ug/m3	<0.41	5.4	08/10/17 15:17	MN
m&p-Xylene	ug/m3	<0.35	1.8	08/10/17 15:17	
Methyl-tert-butyl ether	ug/m3	<0.31	3.7	08/10/17 15:17	
Methylene Chloride	ug/m3	<1.5	3.5	08/10/17 15:17	
n-Heptane	ug/m3	<0.21	0.83	08/10/17 15:17	
n-Hexane	ug/m3	<0.15	0.72	08/10/17 15:17	
Naphthalene	ug/m3	<0.58	2.7	08/10/17 15:17	
o-Xylene	ug/m3	<0.18	0.88	08/10/17 15:17	
Propylene	ug/m3	<0.11	0.35	08/10/17 15:17	
Styrene	ug/m3	<0.14	0.87	08/10/17 15:17	
Tetrachloroethene	ug/m3	<0.29	0.69	08/10/17 15:17	
Tetrahydrofuran	ug/m3	<0.10	0.60	08/10/17 15:17	
Toluene	ug/m3	<0.15	0.77	08/10/17 15:17	
trans-1,2-Dichloroethene	ug/m3	<0.20	0.81	08/10/17 15:17	
trans-1,3-Dichloropropene	ug/m3	<0.14	0.92	08/10/17 15:17	
Trichloroethene	ug/m3	<0.20	0.55	08/10/17 15:17	
Trichlorofluoromethane	ug/m3	<0.42	1.1	08/10/17 15:17	
Vinyl acetate	ug/m3	<0.13	0.72	08/10/17 15:17	
Vinyl chloride	ug/m3	<0.13	0.26	08/10/17 15:17	

LABORATORY CONTROL SAMPLE: 2668143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	55.7	100	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	74.5	107	70-130	
1,1,2-Trichloroethane	ug/m3	55.5	57.5	104	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	78.0	100	70-130	
1,1-Dichloroethane	ug/m3	41.1	42.8	104	70-130	
1,1-Dichloroethene	ug/m3	40.3	42.2	105	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	79.2	105	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	50.4	101	70-136	
1,2-Dibromoethane (EDB)	ug/m3	78.1	79.7	102	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	60.0	98	70-139	
1,2-Dichloroethane	ug/m3	41.1	42.0	102	70-130	
1,2-Dichloropropane	ug/m3	47	50.3	107	70-131	
1,3,5-Trimethylbenzene	ug/m3	50	50.5	101	70-133	
1,3-Butadiene	ug/m3	22.5	25.0	111	70-130	
1,3-Dichlorobenzene	ug/m3	61.1	59.5	97	70-144	
1,4-Dichlorobenzene	ug/m3	61.1	58.4	96	70-139	
2-Butanone (MEK)	ug/m3	30	35.7	119	70-130	
2-Hexanone	ug/m3	104	111	107	70-138	
2-Propanol	ug/m3	125	126	101	70-130	
4-Ethyltoluene	ug/m3	50	50.7	101	70-135	

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QUALITY CONTROL DATA

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

LABORATORY CONTROL SAMPLE: 2668143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	104	110	105	70-130	
Acetone	ug/m3	121	114	94	64-130	
Benzene	ug/m3	32.5	33.6	104	70-130	
Benzyl chloride	ug/m3	52.6	58.8	112	70-144	
Bromodichloromethane	ug/m3	68.1	71.9	106	70-134	
Bromoform	ug/m3	105	130	124	70-150	
Bromomethane	ug/m3	39.5	39.6	100	70-130	
Carbon disulfide	ug/m3	31.6	33.0	104	70-134	
Carbon tetrachloride	ug/m3	64	71.5	112	68-150	
Chlorobenzene	ug/m3	46.8	46.0	98	70-132	
Chloroethane	ug/m3	26.8	29.8	111	70-132	
Chloroform	ug/m3	49.6	49.9	101	70-130	
Chloromethane	ug/m3	21	22.1	105	70-130	
cis-1,2-Dichloroethene	ug/m3	40.3	42.1	104	70-133	
cis-1,3-Dichloropropene	ug/m3	46.1	49.2	107	70-137	
Cyclohexane	ug/m3	35	38.1	109	70-130	
Dibromochloromethane	ug/m3	86.6	94.9	110	70-144	
Dichlorodifluoromethane	ug/m3	50.3	52.4	104	70-130	
Dichlorotetrafluoroethane	ug/m3	71	70.8	100	70-130	
Ethanol	ug/m3	91.6	103	113	70-136	
Ethyl acetate	ug/m3	36.6	40.0	109	70-130	
Ethylbenzene	ug/m3	44.1	44.9	102	70-134	
Hexachloro-1,3-butadiene	ug/m3	108	117	108	45-150	
m&p-Xylene	ug/m3	88.3	88.9	101	70-130	
Methyl-tert-butyl ether	ug/m3	91.6	91.7	100	66-148	
Methylene Chloride	ug/m3	177	174	98	67-133	
n-Heptane	ug/m3	41.6	45.0	108	70-130	
n-Hexane	ug/m3	35.8	37.8	105	67-132	
Naphthalene	ug/m3	53.3	58.1	109	53-150	
o-Xylene	ug/m3	44.1	44.0	100	70-130	
Propylene	ug/m3	17.5	21.0	120	70-135	
Styrene	ug/m3	43.3	47.2	109	70-139	
Tetrachloroethene	ug/m3	68.9	66.4	96	70-130	
Tetrahydrofuran	ug/m3	30	34.3	114	70-130	
Toluene	ug/m3	38.3	38.7	101	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	41.7	104	70-131	
trans-1,3-Dichloropropene	ug/m3	46.1	50.4	109	70-142	
Trichloroethene	ug/m3	54.6	53.2	97	70-130	
Trichlorofluoromethane	ug/m3	57.1	54.3	95	70-130	
Vinyl acetate	ug/m3	35.8	40.3	113	70-137	
Vinyl chloride	ug/m3	26	27.6	106	70-130	

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QUALITY CONTROL DATA

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

SAMPLE DUPLICATE: 2669245

Parameter	Units	10398544009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.55		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.42		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.36		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<0.58		25	
1,1-Dichloroethane	ug/m3	ND	<0.34		25	
1,1-Dichloroethene	ug/m3	ND	<0.38		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<1.5		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<0.28		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.48		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.30		25	
1,2-Dichloroethane	ug/m3	ND	<0.30		25	
1,2-Dichloropropane	ug/m3	ND	<0.36		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.38		25	
1,3-Butadiene	ug/m3	ND	<0.17		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.23		25	
1,4-Dichlorobenzene	ug/m3	ND	<0.33		25	
2-Butanone (MEK)	ug/m3	6.9	7.0	2	25	
2-Hexanone	ug/m3	ND	<0.36		25	
2-Propanol	ug/m3	ND	<0.56		25	
4-Ethyltoluene	ug/m3	ND	<0.24		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.39		25	
Acetone	ug/m3	14.8	15.1	2	25	
Benzene	ug/m3	ND	<0.21		25	
Benzyl chloride	ug/m3	ND	<0.38		25	
Bromodichloromethane	ug/m3	ND	<0.37		25	
Bromoform	ug/m3	ND	<0.66		25	
Bromomethane	ug/m3	ND	<0.33		25	
Carbon disulfide	ug/m3	ND	<0.16		25	
Carbon tetrachloride	ug/m3	ND	<0.47		25	
Chlorobenzene	ug/m3	ND	<0.29		25	
Chloroethane	ug/m3	ND	<0.33		25	
Chloroform	ug/m3	ND	<0.33		25	
Chloromethane	ug/m3	1.2	1.3	8	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.35		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.14		25	
Cyclohexane	ug/m3	ND	<0.25		25	
Dibromochloromethane	ug/m3	ND	<0.53		25	
Dichlorodifluoromethane	ug/m3	ND	1.5J		25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.71		25	
Ethanol	ug/m3	7.4	7.5	0	25	
Ethyl acetate	ug/m3	ND	<0.27		25	
Ethylbenzene	ug/m3	ND	<0.28		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<0.66		25	
m&p-Xylene	ug/m3	ND	<0.56		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.50		25	
Methylene Chloride	ug/m3	ND	4.4J		25	
n-Heptane	ug/m3	ND	<0.34		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: 5613 Riemer's Flowers

Pace Project No.: 10398434

SAMPLE DUPLICATE: 2669245

Parameter	Units	10398544009 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	0.80J		25	
Naphthalene	ug/m3	ND	<0.94		25	
o-Xylene	ug/m3	ND	<0.28		25	
Propylene	ug/m3	2.0	2.0	1	25	
Styrene	ug/m3	ND	<0.22		25	
Tetrachloroethene	ug/m3	ND	<0.46		25	
Tetrahydrofuran	ug/m3	ND	<0.17		25	
Toluene	ug/m3	1.6	1.6	0	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.31		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.23		25	
Trichloroethene	ug/m3	ND	<0.33		25	
Trichlorofluoromethane	ug/m3	ND	<0.67		25	
Vinyl acetate	ug/m3	2.6	2.6	2	25	
Vinyl chloride	ug/m3	ND	<0.20		25	

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QUALIFIERS

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

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

E Analyte concentration exceeded the calibration range. The reported result is estimated.

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5613 Riemer's Flowers

Pace Project No.: 10398434

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10398434001	SG-1	TO-15	490352		
10398434003	SG-2	TO-15	490352		
10398434005	SG-3	TO-15	490352		
10398434002	SG-1 CERT	TO-15	489835		
10398434004	SG-2 CERT	TO-15	489835		
10398434006	SG-3 CERT	TO-15	489835		

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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.

10398434

27463

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Program	
Company: <u>Moraine EHV</u>		Report To: <u>dmlennon@yahoo.com</u>		Attention: <u>Sample</u>		<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act	
Address: <u>766 Tower Dr. Fredonia, WI</u>		Copy To:		Company Name: <u>as</u>		<input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
Email To: <u>moraine@execpc.com</u>		Purchase Order No.:		Address: <u>client DRGO</u>		Location of Sampling by State <u>WI</u>	
Phone: _____ Fax: _____		Project Name: <u>Riemer's Flowers</u>		Pace Quote Reference:		Reporting Units ug/m ³ <input checked="" type="checkbox"/> mg/m ³ _____ PPBV _____ PPMV _____ Other _____	
Requested Due Date/TAI:		Project Number: <u>5613</u>		Pace Project Manager/Sales Rep.:		Report Level II. ___ III. ___ IV. ___ Other ___	

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Teclar 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 - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:								Face Lab ID	
					COMPOSITE START END:GRAB		COMPOSITE -						PM10	3C-Fixed Gas (%)	TD-3	TO-9M (Methane)	TO-14 (PCBs)	TO-13 (PAH)	TO-14	TO-15		TO-15 Short List
					DATE	TIME	DATE	TIME														
1	SG-1		6LC		8/4/17	10:52-11:22	27.5	7	1494	0782									X	001/002		
2	SG-2		6LC		8/4/17	11:42-12:12	28.5	17.5	1585	0790									X	003/004		
3	SG-3		6LC		8/4/17	13:00-13:30	30	7.5	0128	1156									X	005/006		
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	<u>Dave Lennon / Moraine</u>	<u>8/4/17</u>		<u>Mark</u>	<u>8/7/17</u>	<u>1235</u>	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: <u>Dave Lennon</u>	DATE Signed (MM / DD / YY): <u>08/04/17</u>
SIGNATURE of SAMPLER: <u>Dave Lennon</u>	

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.11

Document Revised: 26APR2016
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition
Upon Receipt

Client Name: BC 8-7-17
WSP Morgue EW

Project #:

WO#: **10398434**



Courier: Fed Ex UPS Speedee Client
 Commercial Pace Other: _____

Tracking Number: 7300 9905 6180 - 6191 - 7614 - 3733

Optional: Proj. Due Date: _____ Proj. Name: _____

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): _____ Thermom. Used: B88A912167504 151401163
 B88A0143310098 151401164
Date & Initials of Person Examining Contents: MDJS 8/7/17

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.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received: 3 cans: FFT

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: *Sarah Porter*

Date: 8/8/2017

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)