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March 10, 2020

Mr. Paul Grittner
Wisconsin Department of Natural Resources
Remediation & Redevelopment Program
2300 North Dr. Luther Martin King Jr Drive
Milwaukee, Wisconsin 53212

Reference: *February 2020 Sampling Results*
Schaefer Brush
1101 South Prairie Avenue
Waukesha, Wisconsin
FID No. 268138750
BRRTS No. 02-68-563736

KEY ENGINEERING GROUP, LTD.
File No. 1604-1204-0002

Dear Mr. Grittner:

Key Engineering Group, Ltd. (KEY) has prepared this letter to provide the Wisconsin Department of Natural Resources (WDNR) with indoor air and sub-slab vapor analytical results and pressure readings from Schaefer Brush located at 1101 South Prairie Avenue, in Waukesha, Wisconsin (Figure 1). Site Investigation Sample Results Notification (WDNR Form 4400-249) and a copy of the sub-slab and indoor air laboratory reports are included as Attachments 1 and 2, respectively.

Electronic copies of this letter were also submitted to the following parties:

Responsible Party (RP): Ms. Sheri Reichart, Agent
1101 Gage Inc.
1101 South Prairie Avenue
Waukesha, Wisconsin 53186

RP Representative: Mr. Jeffrey Mawicke, Attorney
Mawicke & Goisman, S.C.
1509 North Prospect Avenue
Milwaukee, Wisconsin 53202

Property Operator: Mr. Kim Erdmann
Schaefer Brush Mfg. Co.
1101 South Prairie Avenue
Waukesha, Wisconsin 53186

1.0 BACKGROUND

A vapor mitigation system was installed between February and March 2018. An audible alarm was installed in July 2018. The system was optimized between April and October 2018. A pressurization system was installed to interrupt the vapor migration pathway into the building. The positive pressure ventilation system that was installed is a Rapid Engineering LLC 2010 direct fired 80/20 makeup air unit. The installed system unit is designed to bring outside air into the building at a rate sufficient to maintain an approximate positive pressure of 0.01 inches water column relative to the outside air pressure.

A *Supplemental Site Investigation & Remedial Action Plan* were submitted to the WDNR on May 31, 2019. On December 13, 2019, KEY and a representative for Schaefer Brush attended a meeting with the WDNR to discuss the effectiveness of the pressurization system to mitigate vapor. At the meeting, the WDNR requested more time to determine if additional data were needed to demonstrate the system's effectiveness. On January 14, 2020, KEY met with the WDNR again and a scope of work was developed based on the requests from this second meeting. A *Site Investigation Work Plan* was submitted with a technical review fee on February 28, 2020 based on the scope of work requested at the January 2020 meeting.

Below is a summary of the scope of work, field procedures, analytical results, and field measurements completed in February that was detailed in the *Site Investigation Work Plan*.

2.0 OFFICE & BASEMENT VAPOR INTRUSION ASSESSMENT

The office and basement have a heating ventilation and air conditioning system separate from the manufacturing and shipping department. The WDNR has requested a vapor intrusion assessment of the office and basement.

2.1 Install Vapor Pins for Sub-Slab Vapor Sampling and Pressure Readings

KEY installed two sub-slab Cox-Calvin Vapor Pins® (vapor pins) in the office (SS-11 and SS-13) and one in the basement (SS-12) located under the office on February 11, 2020 (Figure 2).

The office sub-slab vapor pins were installed in hallways near locations occupied by workers for a minimum of 8-hour shift and near a kitchenette. The basement vapor pin location was installed in the room with the heating ventilation and air condition (HVAC) equipment and closed sump.

The installation of the vapor pins was completed by drilling a 1.5-inch wide hole to approximately 1.75 inches through the concrete floor using a hammer drill. Then a 5/8-inch hole was drilled through the center of the 1.5-inch hole through the concrete floor and approximately one inch into the underlying soil to form a void. The dust from the drilling was flushed from the hole using a bottle brush and vacuumed. The vapor pin assembly (stainless steel hose barb with an outer silicon sleeve) was inserted into the 5/8-inch drill hole and

tapped down below the concrete floor surface. The silicon sleeve formed a slight bulge between the concrete slab and the vapor pin to create a seal. A water dam was used confirm the seals were adequate.

2.2 Sub-Slab Vapor and Indoor Air Sampling Locations and Procedures

Sub-slab samples SS-11 through SS-13 and indoor air samples were IAO-1, IAO-2, and IAB-1 were collected on February 11, 2020. These samples are collected in a heating season. The outdoor temperature ranged from 22 to 31 degrees Fahrenheit. Samples SS-13 and IAO-1, SS-12 and IAB-1, and SS-13 and IAO-1 were collected as co-located samples to evaluate sub-slab vapor and indoor air quality. Samples were analyzed for VOCs using Method TO-15 by Pace Laboratory Services (Pace).

The field procedure for sub-slab samples included confirming the seals were adequate, attaching a 6-liter Summa canister to the vapor pin and extracting a 30-minute sample from beneath the concrete slab. After the samples were collected, the vapor pins were capped with a vinyl cap to prevent vapor from beneath the concrete slab from entering the building. The 1.5-inch drill hole was capped with a flush mount, threaded stainless steel cap.

The field procedure for indoor air samples included placing a 6-liter Summa canister approximately 5 feet off the floor in the breathing zone, removing the nut on top of the canister, and opening the canister valve to begin sample collection. After the 8-hour collection time, the valves were closed, and the nut was replaced to close the canisters.

2.3 Sub-Slab Vapor and Indoor Air Analytical Results

Sub-slab samples SS-11 through SS-13 and indoor air samples were IAO-1, IAO-2, and IAB-1were collected on February 11, 2020 from the office and basement located on the west side of the building. Sample locations are presented on Figure 2. The indoor air sample analytical results were compared to the small commercial vapor action levels (VALs) since the office and basement spaces are collectively approximately 12,575 square feet. The sub-slab vapor samples analytical results were compared to the small commercial vapor risk screening levels (VRSLs).

A summary of the indoor air and sub-slab vapor analytical results are presented in Table 1. Sub-slab vapor and indoor air analytical results are posted on Figures 3 and 4, respectively. Below is a summary of the analytical results.

- Sub-slab vapor analytical results from SS-11 throughSS-13 were detected below the small commercial VRSLs. Based on this data, a vapor mitigation system is not warranted to interrupt the vapor intrusion pathway.

- Indoor air analytical results from IAO-1, IAO-2, and IAB-1 were detected above the small commercial VAL of 11 micrograms per cubic meter ($\mu g/m^3$) for 1,4-dichlorobenzene with concentrations ranging from 172 $\mu g/m^3$ to 195 $\mu g/m^3$. This analyte is a common disinfectant and deodorizer. This analyte has not been detected in soil or groundwater samplings onsite. The source is likely from cleaning agents used in the facility.

2.4 Sub-Slab and Indoor Air Pressure Readings

KEY collected sub-slab pressure readings (in relation to the indoor air) after collecting sub-slab vapor samples from vapor pins installed on the north and south ends of the office (SS-13 and SS-11) and in the basement (SS-12) on February 11, 2020. Pressure readings were collected by attaching a micromanometer capable of measuring pressure to 0.001 inches of water column (in WC) to the vapor pins with silicon tubing.

KEY also collected an indoor air pressure reading (in relation to the outdoor air) from the office (BP-1) on February 11, 2020. This pressure reading was collected by running a length of polyethylene tubing connected to a micromanometer by silicon tubing from inside the building to outside the nearest office exterior door.

Pressure readings were measured once a stable reading was reached. A summary of the measurements is presented in Table 2. Sample locations are presented on Figure 2. Below is a summary of the measurements.

- Sub-slab pressure readings from SS-11 through SS-13 were measured at 0.0 in WC.
- Indoor air pressure from BP-1 was measured at 0.006 in WC.
- An indoor air pressure reading was not collected from the basement since the basement walls are located below grade and running tubing up to the first floor and outside is not practical and the data may not be accurate due to distance and length of tubing.

3.0 PRESSURIZATION SYSTEM VERIFICATION SAMPLING IN MANUFACTURING AND SHIPPING DEPARTMENTS

The WDNR has requested additional sub-slab vapor and indoor air testing in the manufacturing and shipping department where the pressurization system is designed to mitigate vapor intrusion. The purpose of the sub-slab vapor samples is to compare chlorinated VOCs concentrations under the slab pre- and post-mitigation and determine if the neutral pressure under the slab (0.0 in WC) has resulted in the diffusion of vapors. The purpose of the indoor air samples is to confirm there are no chlorinated VOC exceedances in the air and the pressurization system is working effectively to mitigate vapor intrusion.

3.1 Sub-Slab Vapor and Indoor Air Analytical Results

Sub-slab vapor samples were collected from SS-2 through SS-4 and SS-6 through SS-8 and indoor air samples will be collected from IA-5, IA-12, IA-14, and IA-19 through IA-21 on February 11, 2020. Sample locations are presented on Figure 2. Sub-slab vapor samples were collected over 30 minutes and indoor air samples were collected over 8 hours using the same procedures described in Section 2.2. Samples were analyzed for VOCs using Method TO-15 by Pace.

Sample locations were determined based on the following criteria:

1. Locations occupied on workers for a minimum of 8-hour shift (SS-2, SS-3, SS-7, SS-8, IA-12, and IA-19 through IA-21).

2. Locations that allow for a uniform distribution across both departments. All sample locations meet this criterion.
3. Locations near the outer extents of where the pressurization system is designed to have positive pressure. All sample locations meet this criterion.
4. Locations where previous sample results were detected above VRSLs or VALs.
5. Locations near floor penetrations like restroom or eyewash floor drains (SS-3, SS-4, SS-6, and SS-7).

There are also currently 10 sub-slab vapor pins (SS-1 through SS-10) installed in an approximate grid-like pattern across the manufacturing and shipping department for collecting sub-slab vapor samples, as warranted. The locations are presented on Figure 2.

The indoor air sample analytical results were compared to the large commercial VALs since the manufacturing and shipping departments are collectively approximately 48,400 square feet. The sub-slab vapor samples analytical results were compared to the large commercial VRSLs.

A summary of the indoor air and sub-slab vapor analytical results are presented in Table 1. Sample locations are presented on Figure 2. Sub-slab vapor and indoor air analytical results are posted on Figures 3 and 4, respectively. Below is a summary of the analytical results.

- Sub-slab vapor analytical results from SS-2, SS-6, and SS-8 were detected below the large commercial VRSLs. These samples are located in the northwest quarter (SS-2) and southwest quarter (SS-8) of the manufacturing department nearest the offices. Sample SS-6 is located in the southeast side of the shipping department.

- Sub-slab vapor analytical results were exceeded at SS-3, SS-4, and SS-7. Tetrachloroethene (PCE) was detected above its VRSL of 18,000 µg/m^3 at SS-3 (156,000 µg/m^3), SS-4 (654,000 µg/m^3), and SS-7 (36,800 µg/m^3). Trichloroethene (TCE) was detected above its VRSL of 880 µg/m^3 at SS-4 (1,010 µg/m^3). These samples are located in the northeast quarter (SS-3) and southeast quarter (SS-7) of the manufacturing department farthest from the offices. Sample SS-4 is located on the north side of the shipping department under the mezzanine.

- Indoor air analytical results from IA-5, IA-12, IA-14, and IA-19 through IA-21 were detected above the large commercial VAL of 11 µg/m^3 for 1,4-dichlorobenzene with concentrations ranging from 15.3 µg/m^3 to 19.7 µg/m^3. This analyte is a common disinfectant and deodorizer. This analyte has not been detected in soil or groundwater samplings onsite. The source is likely from cleaning agents used in the facility.

3.2 Install Indoor Air Pressure Ports

KEY installed six indoor air building pressure ports (BPP-1 through BBP-6) on February 11, 2020. The locations are presented on Figure 2. A photograph of BBP-4 is presented to the right.

The indoor air pressure ports were installed by drilling a ¼-inch hole through the wall approximately 5 feet above the floor and inserting a ¼-inch polyvinyl chloride (PVC) pipe that was extended approximately two inches inside the building to two inches past the exterior wall. The exterior end of the pipe was capped. The interior end of the pipe was fitted with a reducer and hose barb and capped. The pipes were sealed at the interior and exterior walls with silicon and a washer. A label was placed above each pressure port with its identification number.

There are also nine indoor air locations (BP-1 through BP-9) that are located in the manufacturing and shipping department that have been used as locations to measure the indoor air pressure in relation to the outdoor air in the past. These locations are nearly evenly spaced across the manufacturing and shipping department (Figure 2). These locations were used to collect additional indoor air pressure readings in February 2020.

3.3 Sub-Slab and Indoor Air Pressure Readings

KEY collected sub-slab pressure readings (in relation to the indoor air) after collecting sub-slab vapor samples from vapor pins SS-1 through SS-10 on February 11, 2020. Pressure readings were collected by attaching a micromanometer capable of measuring pressure to 0.001 in WC to the vapor pins with silicon tubing.

KEY also collected indoor air pressure readings (in relation to the outdoor air) from BP-2 through BP-9 and BBP-1 through BBP-6 on February 11, 2020 (Figure 2). The pressure readings from BP-2 through BP-9 were collected by running a length of polyethylene tubing connected to a micromanometer with silicon tubing from inside the building to outside the building from the nearest exterior door. The pressure readings from BBP-1 through BBP-6 installed through exterior walls were collected by attaching silicon tubing to the pressure port hose barb fitting and running an approximately 5-foot length of polyethylene tubing to another piece of silicon tubing that was attached to the micromanometer.

Pressure readings were measured once a stable reading was reached. A summary of the measurements is presented in Table 2. Below is a summary of the measurements.

- Sub-slab pressure readings from SS-1 through SS-10 were measured at 0.0 in WC. The 0.0 pressure under the building does not appear to have resulted in sub-slab vapors migrating significantly under the building.

- Indoor air pressure from BP-2 through BP-9 were measured between 0.020 to 0.040 in WC. The exceptions were three measurements at BP-5 (0.002 in WC), BP-7 (0.004 in WC), and BP-8 (0.002 in WC). Indoor air pressure from BPP-1 through BPP-6 were measured between 0.011 to 0.020 in WC with the exception of measurements at BPP-3 (0.007 in WC) and BBP-5 (0.007 in WC).
    - Most pressure readings were above the pressurization system design of 0.01 in WC.
    - These measurements demonstrate there are minor differences in indoor air pressure in the building. This could be caused by the wind speed on February 11, 2020 which ranged from 15 to 20 miles per hour. This is a high wind speed influenced the indoor air pressure.
    - The indoor air pressure readings were positive at each location and greater than the sub-slab pressure. This demonstrates the vapor intrusion pathway has been interrupted.
    - Although lower pressure readings were measured at select locations, other nearby pressure readings were higher. BP-5 pressure was 0.002 in WC and nearby BPP-4 was greater at 0.011 in WC, BP-7 was 0.004 in WC and nearby BPP-6 was 0.015 in WC, and BP-8 was 0.002 in WC and nearby BPP-1 was 0.020 in WC. This demonstrates there can be variability, but the overall pressure in the building was positive.
    - Regardless of pressure variability, the indoor air analytical results demonstrated there were no VAL exceedances in the building for chlorinated VOCs and the pressurization system is effectively mitigating vapor intrusion.
- Readings from remote pressure sensor on the pressurization system are presented in Table 3 for 2020. The pressure in January and February 2020 averaged 0.2 in WC.

4.0 CONCLUSION

Below is a summary of the key findings and conclusions from the sampling completed in February 2020.

- Office and Basement
    - There were no sub-slab vapor VRSL exceedances or indoor air VAL exceedances in the office or basement. Vapor mitigation is therefore not warranted in these areas.
    - Sub-slab pressure readings from beneath the office and basement from SS-11 through SS-13 were measured at 0.0 in WC. Indoor air pressure in the office from BP-1 was measured at 0.006 in WC.
- Manufacturing and Shipping Departments Where Pressurization System is Effective
    - Sub-slab vapor analytical results from SS-2, SS-6, and SS-8 were detected below the large commercial VRSLs. Two of the locations are located in the manufacturing department nearest the offices.

- Sub-slab vapor analytical results were exceeded at SS-3, SS-4, and SS-7 for PCE and/or TCE. These locations are in the manufacturing department farthest from the offices or shipping department under the mezzanine where elevated readings were historically exceeded.

- Indoor air analytical results from IA-5, IA-12, IA-14, and IA-19 through IA-21 were detected below their respective large commercial VALs for the constituents of concern (PCE and TCE). This demonstrates the pressurization system is effectively mitigating vapor intrusion into the building.

- Sub-slab pressure readings from SS-1 through SS-10 were measured at 0.0 in WC. The 0.0 pressure under the building does not appear to have resulted in sub-slab vapors migrating significantly.

- Indoor air pressure from BP-2 through BP-9 were measured between 0.002 to 0.040 in WC.

    - The high wind speed of 15 to 20 mph likely had an influence on the indoor air pressure.

    - The indoor air pressure readings were still positive and greater than the sub-slab pressure. This demonstrates the vapor intrusion pathway has been interrupted.

    - Lower pressure readings were measured at select locations, however the overall pressure in the building was positive and the indoor air analytical results demonstrated there were no VAL exceedances. Therefore, the pressurization system is effectively interrupting the vapor intrusion pathway.

- Readings from remote pressure sensor on the pressurization system in January and February 2020 averaged 0.2 in WC.

5.0 SCHEDULE FOR FUTURE SAMPLING

Below is a table with the schedule to complete the additional sampling.

Location and Task	Map IDs	Analysis	Sample Dates
Office			February 11, March 16, June, August
Collect 2 Indoor Air & 2 Co-Located Sub-Slab Vapor Samples	IAO-1, IAO-2, SS-11, SS-13	VOCs	
Collect 1 Indoor Air Pressure Reading	BP-1	Field Measurement	
Collect 2 Sub-Slab Pressure Reading	SS-11, SS-13		
Basement			
Collect 1 Indoor Air & Co-Located Sub-Slab Vapor Samples	IAB-1, SS-12	VOCs	
Collect 1 Sub-Slab Vapor	SS-12	Field Measurement	
Manufacturing/Shipping Department			
Collect 6 Indoor Air & 6 Co-Located Sub-Slab Vapor Samples	IA-5, IA-12, IA-14, IA-19, IA-20, IA-21 SS-2, SS-2, SS-4, SS-6, SS-7, SS-8	VOCs	
Collect 9 Indoor Air Pressure Readings	BP-2 through BP-9	Field Measurement	
Collect 9 Sub-Slab Pressure Readings	SS-1 through SS-10		
Groundwater Sampling			
Site-Wide Water Levels	MW-1 through MW-7	VOCs	March, June
Groundwater sample wells	MW-2, MW-3, MW-4, MW-7		

*** February samples and readings were collected on February 11, 2020.**

Sincerely,
KEY ENGINEERING GROUP, LTD.

Toni L. Schoen
Senior Project Manager

D'Arcy J. Gravelle, CP, CPG
Principal

cc: Jeffrey Mawicke, Mawicke & Goisman, S.C. (email: jmawicke@mawickelaw.com)
Sheri Reichart, 1101 Gage Inc. (email: slr@charter.net)
Kim Erdman, Schaefer Brush (email: kim@schaeferbrush.com)

Attachments

Table 1	Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results
Table 2	Pre- and Post System Installation Building Pressure Readings
Table 3	Remote Pressure Sensor Building Interior Pressure Readings
Figure 1	Site Location Map and Water Well Map
Figure 2	Interior Facility Sampling Locations
Figure 3	Post Remedial Sub-Slab Vapor Analytical Results
Figure 4	Post Remedial Indoor Air Analytical Results
Attachment 1	Site Investigation Sample Results Notification (WDNR Form 4400-249)
Attachment 2	Sub-Slab Vapor and Indoor Air Laboratory Reports

Tables

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VRSLs					
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**
Sample I.D.					**SS-2**	**SS-2**	**SS-3**	**SS-4**	**SS-4**	**SS-6**
Duration of Sample Collection (hrs)					**8**	**30**	**30**	**8**	**30**	**30**
Date Collected					**10/31/2018**	**2/11/2020**	**2/11/2020**	**10/31/2018**	**2/11/2020**	**2/11/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Acetone	14,000,000	140,000	4,620,000	140,000	10.0	2.7J	<34.8	8.4	<69.7	17.2
Benzene	1,600	16	528	16	<0.28	0.46J	<4.4	1.9	<8.8	0.35J
Bromomethane	2,200	22	726	22	<0.42	<0.44	<6.5	<0.40	<13.1	<0.44
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	4.1J	<0.71	<10.6	3.0J	<21.3	10.0
Carbon disulfide	310,000	3,100	102,300	3,100	5.4	<0.42	<6.3	0.67J	<12.6	<0.42
Carbon tetrachloride	2,000	20	660	20	<0.79	<0.82	<12.4	<0.75	<24.7	<0.82
Chlorobenzene	22,000	220	7,260	220	<0.50	<0.53	<7.9	0.83J	<15.8	<0.53
Chloroform	530	5.3	175	5.3	<0.36	<0.38	<5.6	7.6	<11.3	<0.38
Chloromethane	39,000	390	12,870	390	0.67J	<0.30	<4.5	<0.27	<9.0	<0.30
Cyclohexane	2,600,000	26,000	858,000	26,000	<0.65	<0.68	<10.2	<0.62	<20.3	<0.68
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.91	<0.96	<14.3	<0.87	<28.7	<0.96
1,3-Dichlorobenzene	--	---	--	---	<1.1	<1.1	<16.7	<1.0	<33.5	<1.1
1,4-Dichlorobenzene	1,100	11	363	11	<1.8	3.5J	<28.8	<1.8	<57.6	2.9J
Dichlorodifluoromethane	44,000	440	14,520	440	2.3	2.5	<8.4	2.1	<16.9	2.5
1,1-Dichloroethane	7,700	77	2,541	77	<0.41	<0.43	<6.5	<0.39	<13.0	<0.43
1,2-Dichloroethane	470	4.7	155	4.7	<0.27	<0.29	<4.3	<0.26	<8.6	<0.29
1,1-Dichloroethene	88,000	880	29,040	880	<0.50	<0.53	<7.9	<0.48	<15.8	<0.53
cis-1,2-Dichloroethene	--	---	--	---	<0.40	<0.42	<6.3	19.5	301	<0.42
trans-1,2-Dichloroethene	--	---	--	---	<0.52	<0.55	<8.2	2.7	<16.4	<0.55
Ethanol	--	---	--	---	10.3	4.3J	54.9J	4.7	<46.8	7.3J
Ethyl acetate	31,000	310	10,230	310	<0.35	<0.36	24.1	<0.33	<10.9	3.4
Ethylbenzene	4,900	49	1,617	49	3.1	1.9	<8.8	5.2	<17.6	1.4J
4-Ethyltoluene	--	---	--	---	1.4J	2.2J	<16.4	<1.0	<32.8	1.7J
N-Heptane	--	---	--	---	<0.70	<0.73	<10.9	<0.66	<21.9	<0.73
Hexachloro-1,3-butadiene	--	---	--	---	<3.6	<3.8	<56.7	<3.4	<113	<3.8
n-Hexane	310,000	3,100	102,300	3,100	<0.57	0.77J	<9.0	<0.54	<17.9	<0.60
2-Hexanone	13,000	130	4,290	130	<1.4	<1.4	<21.5	<1.3	<42.9	<1.4
Methylene Chloride	260,000	2,600	85,800	2,600	6.6	3.0J	<34.8	4.3J	<69.7	<2.3
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.95	<0.99	<14.9	<0.91	<29.8	<0.99
Naphthalene	360	3.6	119	3.6	5.5	6.1	<37.7	3.7J	<75.5	5.9
2-Propanol	--	---	--	---	<1.3	<1.3	<20.1	<1.2	<40.1	<1.3
Propylene	1,300,000	13,000	429,000	13,000	<0.26	<0.27	<4.0	<0.25	<8.1	0.77
Styrene	440,000	4,400	145,200	4,400	<0.63	<0.66	<9.9	<0.60	<19.8	<0.66

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VRSLs					
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**
Sample I.D.					**SS-2**	**SS-2**	**SS-3**	**SS-4**	**SS-4**	**SS-6**
Duration of Sample Collection (hrs)					**8**	**30**	**30**	**8**	**30**	**30**
Date Collected					**10/31/2018**	**2/11/2020**	**2/11/2020**	**10/31/2018**	**2/11/2020**	**2/11/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Tetrachloroethene	18,000	180	5,940	180	200	52.7	**156,000**	**493,000**	**654,000**	1,690
Tetrahydrofuran	--	---	--	---	<0.48	2.7	<7.5	<0.46	<15.0	1.7
Toluene	2,200,000	22,000	726,000	22,000	2.4	7.2	24.0	5.1	<20.2	5.7
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<6.8	<7.1	<107	<6.5	<214	<7.1
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.57	<0.59	<8.9	8.2	62.0J	1.2J
Trichloroethene	880	8.8	290	8.8	2.5	<0.49	68.1	**1,260**	**1,010**	0.80J
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.1J	1.3J	<10.5	1.1J	<21.1	1.3J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<1.0	<1.1	301	26.5	1,270	1.9J
1,2,4-Trimethylbenzene	3,100	31	1,023	31	11.0	8.2	<13.0	4.4	<26.0	6.9
1,3,5-Trimethylbenzene	--	---	--	---	2.7	2.6	13.2J	1.2J	<23.0	2.4
Vinyl Acetate	88,000	880	29,040	880	<0.49	<0.52	<7.8	<0.47	<15.6	<0.52
Vinyl Chloride	2,800	28	924	28	<0.23	<0.24	<3.6	<0.22	<7.3	<0.24
m&p-Xylene	44,000	440	14,520	440	15.1	6.9	<20.1	21.2	<40.3	4.9
o-Xylene	44,000	440	14,520	440	5.7	3.2	<9.9	6.4	<19.8	2.1

Indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VRSLs			
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**
Sample I.D.					**SS-7**	**SS-7**	**SS-8**	**SS-8**
Duration of Sample Collection (hrs)					**8**	**30**	**8**	**30**
Date Collected					**10/31/2018**	**2/11/2020**	**10/31/2018**	**2/11/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15								
Acetone	14,000,000	140,000	4,620,000	140,000	22.7	123	6.4	3.8J
Benzene	1,600	16	528	16	0.94	0.61J	<0.27	0.45J
Bromomethane	2,200	22	726	22	<0.40	<0.44	<0.40	<0.44
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	10.1	8.4	3.4J	<0.71
Carbon disulfide	310,000	3,100	102,300	3,100	<0.38	<0.42	0.56J	<0.42
Carbon tetrachloride	2,000	20	660	20	<0.75	<0.82	<0.75	<0.82
Chlorobenzene	22,000	220	7,260	220	<0.48	<0.53	<0.48	<0.53
Chloroform	530	5.3	175	5.3	0.44J	<0.38	<0.34	<0.38
Chloromethane	39,000	390	12,870	390	2.0	0.41J	<0.27	<0.30
Cyclohexane	2,600,000	26,000	858,000	26,000	<0.62	1.1J	0.68J	2.8J
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.87	<0.96	<0.87	<0.96
1,3-Dichlorobenzene	--	---	--	---	<1.0	<1.1	<1.0	<1.1
1,4-Dichlorobenzene	1,100	11	363	11	<1.8	4.6J	<1.8	<1.9
Dichlorodifluoromethane	44,000	440	14,520	440	2.1	2.6	2.2	2.5
1,1-Dichloroethane	7,700	77	2,541	77	<0.39	<0.43	<0.39	<0.43
1,2-Dichloroethane	470	4.7	155	4.7	<0.26	<0.29	<0.26	<0.29
1,1-Dichloroethene	88,000	880	29,040	880	<0.48	<0.53	<0.48	<0.53
cis-1,2-Dichloroethene	--	---	--	---	<0.38	<0.42	<0.38	<0.42
trans-1,2-Dichloroethene	--	---	--	---	<0.50	<0.55	<0.50	<0.55
Ethanol	--	---	--	---	5.6	77.5	2.2J	23.8
Ethyl acetate	31,000	310	10,230	310	0.62J	5.9	<0.33	<0.36
Ethylbenzene	4,900	49	1,617	49	4.8	1.9	3.5	1.9
4-Ethyltoluene	--	---	--	---	3.3J	2.7J	<1.0	2.0J
N-Heptane	--	---	--	---	<0.66	<0.73	<0.66	<0.73
Hexachloro-1,3-butadiene	--	---	--	---	<3.4	<3.8	<3.4	<3.8
n-Hexane	310,000	3,100	102,300	3,100	0.60J	0.98J	<0.54	0.77J
2-Hexanone	13,000	130	4,290	130	<1.3	2.3J	<1.3	<1.4
Methylene Chloride	260,000	2,600	85,800	2,600	7.1	4.9J	8.2	6.5J
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.91	1.1J	<0.91	<0.99
Naphthalene	360	3.6	119	3.6	17.6	8.0	6.2	6.5
2-Propanol	--	---	--	---	1.8J	48.2	<1.2	<1.3
Propylene	1,300,000	13,000	429,000	13,000	1.2	<0.27	<0.25	<0.27
Styrene	440,000	4,400	145,200	4,400	<0.60	0.92J	<0.60	0.74J

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VRSLs			
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**
Sample I.D.					**SS-7**	**SS-7**	**SS-8**	**SS-8**
Duration of Sample Collection (hrs)					**8**	**30**	**8**	**30**
Date Collected					**10/31/2018**	**2/11/2020**	**10/31/2018**	**2/11/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15								
Tetrachloroethene	18,000	180	5,940	180	13,700	**36,800**	8,850	46.8
Tetrahydrofuran	--	---	--	---	<0.46	2.4	<0.46	1.6
Toluene	2,200,000	22,000	726,000	22,000	5.0	9.3	2.0	9.7
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<6.5	<7.1	<6.5	<7.1
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	7.9	23.0	<0.54	<0.59
Trichloroethene	880	8.8	290	8.8	33.8	34.6	16.1	1.4
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.1J	1.4J	1.2J	1.3J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<0.99	3.5	<0.99	<1.1
1,2,4-Trimethylbenzene	3,100	31	1,023	31	15.3	10.3	3.2	7.4
1,3,5-Trimethylbenzene	--	---	--	---	4.4	3.8	0.94J	2.8
Vinyl Acetate	88,000	880	29,040	880	<0.47	<0.52	<0.47	<0.52
Vinyl Chloride	2,800	28	924	28	<0.22	<0.24	<0.22	<0.24
m&p-Xylene	44,000	440	14,520	440	20.8	6.7	14.6	7.0
o-Xylene	44,000	440	14,520	440	9.0	3.2	4.5	2.8

Indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Small Commercial VRSLs		
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**
Sample I.D.					**SS-11**	**SS-12**	**SS-13**
Duration of Sample Collection (hrs)					**30**	**30**	**30**
Date Collected					**2/11/2020**	**2/11/2020**	**2/11/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15							
Acetone	14,000,000	140,000	4,620,000	140,000	7.2	5.2	19.6
Benzene	1,600	16	528	16	0.56J	0.82	0.62J
Bromomethane	2,200	22	726	22	<0.42	<0.44	<0.44
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	1.1J	0.95J	4.4J
Carbon disulfide	310,000	3,100	102,300	3,100	<0.41	<0.42	<0.42
Carbon tetrachloride	2,000	20	660	20	<0.80	<0.82	<0.82
Chlorobenzene	22,000	220	7,260	220	<0.51	<0.53	<0.53
Chloroform	530	5.3	175	5.3	<0.37	<0.38	<0.38
Chloromethane	39,000	390	12,870	390	<0.29	<0.30	<0.30
Cyclohexane	2,600,000	26,000	858,000	26,000	<0.66	<0.68	<0.68
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.93	<0.96	<0.96
1,3-Dichlorobenzene	--	---	--	---	<1.1	<1.1	<1.1
1,4-Dichlorobenzene	1,100	11	363	11	6.5	5.0J	4.4J
Dichlorodifluoromethane	44,000	440	14,520	440	5.5	2.8	2.8
1,1-Dichloroethane	7,700	77	2,541	77	<0.42	<0.43	<0.43
1,2-Dichloroethane	470	4.7	155	4.7	<0.28	<0.29	<0.29
1,1-Dichloroethene	88,000	880	29,040	880	<0.51	<0.53	<0.53
cis-1,2-Dichloroethene	--	---	--	---	<0.41	<0.42	<0.42
trans-1,2-Dichloroethene	--	---	--	---	<0.53	<0.55	<0.55
Ethanol	--	---	--	---	17.1	56.7	97.5
Ethyl acetate	31,000	310	10,230	310	<0.36	<0.36	<0.36
Ethylbenzene	4,900	49	1,617	49	1.8	2.4	2.2
4-Ethyltoluene	--	---	--	---	2.1J	2.7J	2.3J
N-Heptane	--	---	--	---	<0.71	<0.73	<0.73
Hexachloro-1,3-butadiene	--	---	--	---	<3.7	<3.8	<3.8
n-Hexane	310,000	3,100	102,300	3,100	0.68J	0.81J	1.1J
2-Hexanone	13,000	130	4,290	130	<1.4	<1.4	<1.4
Methylene Chloride	260,000	2,600	85,800	2,600	3.6J	<2.3	4.8J
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.97	<0.99	<0.99
Naphthalene	360	3.6	119	3.6	7.2	7.9	7.4
2-Propanol	--	---	--	---	2.5J	<1.3	7.6
Propylene	1,300,000	13,000	429,000	13,000	<0.26	<0.27	<0.27
Styrene	440,000	4,400	145,200	4,400	0.76J	0.91J	0.88J

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Small Commercial VRSLs		
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**
Sample I.D.					**SS-11**	**SS-12**	**SS-13**
Duration of Sample Collection (hrs)					**30**	**30**	**30**
Date Collected					**2/11/2020**	**2/11/2020**	**2/11/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15							
Tetrachloroethene	18,000	180	5,940	180	179	3,500	5.1
Tetrahydrofuran	--	---	--	---	3.1	4.3	3.9
Toluene	2,200,000	22,000	726,000	22,000	7.3	9.6	7.3
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<7.0	<7.1	<7.1
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	0.62J	6.6	<0.59
Trichloroethene	880	8.8	290	8.8	6.9	95.8	<0.49
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.3J	1.8J	1.4J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<1.1	3.6	<1.1
1,2,4-Trimethylbenzene	3,100	31	1,023	31	7.8	9.1	8.4
1,3,5-Trimethylbenzene	--	---	--	---	2.9	3.2	3.3
Vinyl Acetate	88,000	880	29,040	880	<0.50	<0.52	<0.52
Vinyl Chloride	2,800	28	924	28	<0.24	<0.24	<0.24
m&p-Xylene	44,000	440	14,520	440	6.5	8.4	7.5
o-Xylene	44,000	440	14,520	440	3.0	4.1	3.6

Indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VALs					
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**
Sample I.D.					**IA-5**	**IA-5**	**IA-9**	**IA-12**	**IA-12**	**IA-12**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**10/31/2018**	**2/11/2020**	**10/31/2018**	**4/6/2018**	**10/31/2018**	**2/11/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Acetone	14,000,000	140,000	4,620,000	140,000	98.0	26.9	68.4	70.8	60.4	29.9
Benzene	1,600	16	528	16	0.60	1.2	0.37J	1.3	0.35J	0.68
Bromomethane	2,200	22	726	22	<0.33	<0.38	<0.34	<0.44	<0.34	<0.38
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	50.5	17.6	38.7	19.7	33.3	21.1
Carbon disulfide	310,000	3,100	102,300	3,100	<0.32	<0.37	<0.33	<0.38	<0.33	<0.37
Carbon tetrachloride	2,000	20	660	20	<0.62	<0.72	<0.64	<0.67	<0.64	<0.72
Chlorobenzene	22,000	220	7,260	220	<0.40	<0.46	<0.41	<0.38	<0.41	<0.46
Chloroform	530	5.3	175	5.3	<0.28	<0.33	<0.29	<0.49	<0.29	<0.33
Chloromethane	39,000	390	12,870	390	0.78	0.87	0.75	<0.28	0.73	0.85
Cyclohexane	2,600,000	26,000	858,000	26,000	2.3J	<0.59	0.99J	2.5	0.91J	<0.59
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.72	<0.84	<0.74	2.3J	<0.74	<0.84
1,3-Dichlorobenzene	--	---	--	---	<0.84	<0.98	<0.87	<0.99	<0.87	<0.98
1,4-Dichlorobenzene	1,100	11	363	11	19.0	19.1	14.8	211	13.7	18.5
Dichlorodifluoromethane	44,000	440	14,520	440	2.2	2.5	2.2	3.6	2.2	2.6
1,1-Dichloroethane	7,700	77	2,541	77	<0.32	<0.38	<0.34	<0.45	<0.34	<0.38
1,2-Dichloroethane	470	4.7	155	4.7	<0.22	<0.25	<0.22	0.47J	<0.22	<0.25
1,1-Dichloroethene	88,000	880	29,040	880	<0.39	<0.46	<0.41	<0.50	<0.41	<0.46
cis-1,2-Dichloroethene	--	---	--	---	<0.32	<0.37	<0.33	<0.72	<0.33	<0.37
trans-1,2-Dichloroethene	--	---	--	---	<0.41	<0.48	<0.42	<0.63	<0.42	<0.48
Ethanol	--	---	--	---	175	207	231	305	217	256
Ethyl acetate	31,000	310	10,230	310	4.5	1.8	<0.28	2.0	<0.28	<0.32
Ethylbenzene	4,900	49	1,617	49	1.3	1.6	0.76J	2.7	4.9	1.8
4-Ethyltoluene	--	---	--	---	<0.82	<0.96	<0.85	0.95J	<0.85	<0.96
N-Heptane	--	---	--	---	2.8	<0.64	<0.57	3.8	1.1J	<0.64
Hexachloro-1,3-butadiene	--	---	--	---	<2.8	<3.3	<2.9	<1.8	<2.9	<3.3
n-Hexane	310,000	3,100	102,300	3,100	2.0	2.2	0.66J	2.4	0.56J	<0.52
2-Hexanone	13,000	130	4,290	130	<1.1	<1.3	<1.1	<1.3	<1.1	<1.3
Methylene Chloride	260,000	2,600	85,800	2,600	24.3	15.1	17.1	42.8	16.4	17.1
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	1.2J	<0.87	<0.77	<0.75	<0.77	<0.87
Naphthalene	360	3.6	119	3.6	<1.9	<2.2	17.5	5.7	<2.0	<2.2
2-Propanol	--	---	--	---	6.9	5.0	6.5	15.0	3.4J	3.8J
Propylene	1,300,000	13,000	429,000	13,000	<0.21	<0.24	<0.21	<0.33	<0.21	<0.24
Styrene	440,000	4,400	145,200	4,400	33.8	20.3	1.3J	7.5	0.53J	1.8

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VALs					
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**
Sample I.D.					**IA-5**	**IA-5**	**IA-9**	**IA-12**	**IA-12**	**IA-12**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**10/31/2018**	**2/11/2020**	**10/31/2018**	**4/6/2018**	**10/31/2018**	**2/11/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Tetrachloroethene	18,000	180	5,940	180	0.78J	13.1	<0.47	30.0	0.54J	4.0
Tetrahydrofuran	--	---	--	---	<0.38	0.57J	<0.39	1.9	<0.39	<0.44
Toluene	2,200,000	22,000	726,000	22,000	209	177	121	66.8	112	174
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<5.4	<6.2	<5.5	<2.0	<5.5	<6.2
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.44	<0.52	<0.46	<0.73	<0.46	<0.52
Trichloroethene	880	8.8	290	8.8	1.5	1.5	1.6	4.1	1.5	1.6
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.2J	1.3J	1.1J	1.8J	1.1J	1.5J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<0.81	<0.95	<0.84	0.92J	<0.84	<0.95
1,2,4-Trimethylbenzene	3,100	31	1,023	31	1.1J	2.2	<0.67	4.0	<0.67	2.1
1,3,5-Trimethylbenzene	--	---	--	---	<0.57	1.1J	<0.59	1.2J	<0.59	1.0J
Vinyl Acetate	88,000	880	29,040	880	<0.39	<0.45	<0.40	1.7	<0.40	<0.45
Vinyl Chloride	2,800	28	924	28	<0.18	<0.21	<0.19	<0.27	<0.19	<0.21
m&p-Xylene	44,000	440	14,520	440	4.2	5.2	2.3J	8.9	22.7	5.3
o-Xylene	44,000	440	14,520	440	1.3	1.4J	0.65J	3.0	8.5	1.4J

Indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VALs				
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**
Sample I.D.					**IA-13**	**IA-14**	**IA-14**	**IA-14**	**IA-15**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**
Date Collected					**4/6/2018**	**4/6/2018**	**10/31/2018**	**2/11/2020**	**4/6/2018**
Detected VOCs (ug/m^3) by EPA Method TO-15									
Acetone	14,000,000	140,000	4,620,000	140,000	63.3	97.2	102	26.8	90.8
Benzene	1,600	16	528	16	1.3	2.3	0.76	1.1	2.5
Bromomethane	2,200	22	726	22	<0.32	<0.32	<0.32	<0.38	<0.31
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	19.5	19.5	48.6	16.2	19.1
Carbon disulfide	310,000	3,100	102,300	3,100	<0.28	<0.28	<0.30	<0.37	<0.27
Carbon tetrachloride	2,000	20	660	20	0.51J	0.59J	<0.60	<0.72	<0.47
Chlorobenzene	22,000	220	7,260	220	<0.28	<0.28	<0.38	<0.46	<0.27
Chloroform	530	5.3	175	5.3	<0.36	<0.36	<0.27	<0.33	<0.34
Chloromethane	39,000	390	12,870	390	<0.21	1.4	0.91	0.92	<0.20
Cyclohexane	2,600,000	26,000	858,000	26,000	2.5	6.0	1.8J	<0.59	6.8
1,2-Dichlorobenzene	88,000	880	29,040	880	2.3	<0.51	<0.69	<0.84	<0.49
1,3-Dichlorobenzene	--	---	--	---	<0.72	<0.72	<0.81	<0.98	<0.69
1,4-Dichlorobenzene	1,100	11	363	11	226	163	38.3	18.4	143
Dichlorodifluoromethane	44,000	440	14,520	440	3.4	3.1	2.3	2.7	3.0
1,1-Dichloroethane	7,700	77	2,541	77	<0.33	<0.33	<0.31	<0.38	<0.32
1,2-Dichloroethane	470	4.7	155	4.7	0.41J	<0.31	<0.21	<0.25	0.53J
1,1-Dichloroethene	88,000	880	29,040	880	<0.37	<0.37	<0.38	<0.46	<0.35
cis-1,2-Dichloroethene	--	---	--	---	<0.53	<0.53	<0.30	<0.37	<0.51
trans-1,2-Dichloroethene	--	---	--	---	<0.46	<0.46	<0.40	<0.48	<0.44
Ethanol	--	---	--	---	297	222	179	181	234
Ethyl acetate	31,000	310	10,230	310	1.8	2.4	2.8	1.7	3.3
Ethylbenzene	4,900	49	1,617	49	2.7	6.7	1.6	1.5	7.4
4-Ethyltoluene	--	---	--	---	0.84J	2.5	<0.79	<0.96	2.6
N-Heptane	--	---	--	---	3.6	7.0	2.4	1.4J	7.9
Hexachloro-1,3-butadiene	--	---	--	---	<1.3	<1.3	<2.7	<3.3	<1.3
n-Hexane	310,000	3,100	102,300	3,100	2.3	7.0	4.0	1.9	7.8
2-Hexanone	13,000	130	4,290	130	<0.95	<0.95	<1.0	<1.3	<0.91
Methylene Chloride	260,000	2,600	85,800	2,600	40.4	29.6	44.4	15.7	29.8
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.55	<0.55	1.1J	<0.87	0.68J
Naphthalene	360	3.6	119	3.6	4.7	5.2	1.9J	<2.2	5.1
2-Propanol	--	---	--	---	12.6	11.9	13.3	4.2	14.7
Propylene	1,300,000	13,000	429,000	13,000	<0.24	<0.24	<0.20	<0.24	<0.23
Styrene	440,000	4,400	145,200	4,400	7.9	36.1	13.3	12.7	36.6

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VALs				
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**
Sample I.D.					**IA-13**	**IA-14**	**IA-14**	**IA-14**	**IA-15**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**
Date Collected					**4/6/2018**	**4/6/2018**	**10/31/2018**	**2/11/2020**	**4/6/2018**
Detected VOCs (ug/m^3) by EPA Method TO-15									
Tetrachloroethene	18,000	180	5,940	180	32.2	118	1.7	16.8	87.7
Tetrahydrofuran	--	---	--	---	1.8	<0.42	<0.36	<0.44	<0.41
Toluene	2,200,000	22,000	726,000	22,000	66.6	85.4	163	170	90.2
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<1.5	<1.5	<5.2	<6.2	<1.4
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.53	<0.53	<0.43	<0.52	<0.51
Trichloroethene	880	8.8	290	8.8	4.8	3.7	1.5	1.5	3.6
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.6J	1.7J	1.3J	1.4J	1.6J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	0.81J	1.0J	<0.78	<0.95	1.1J
1,2,4-Trimethylbenzene	3,100	31	1,023	31	4.0	9.1	1.1J	2.0	9.7
1,3,5-Trimethylbenzene	--	---	--	---	1.0J	2.5	<0.55	1.0J	2.6
Vinyl Acetate	88,000	880	29,040	880	0.88J	2.1	<0.38	<0.45	0.81J
Vinyl Chloride	2,800	28	924	28	<0.20	<0.20	<0.18	<0.21	<0.19
m&p-Xylene	44,000	440	14,520	440	8.9	27.3	4.9	4.8	30.6
o-Xylene	44,000	440	14,520	440	3.1	9.2	1.3	1.2J	10.1

Indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VALs				
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**
Sample I.D.					**IA-16**	**IA-16**	**IA-17**	**IA-18**	**IA-18**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**
Date Collected					**4/6/2018**	**10/31/2018**	**4/6/2018**	**4/6/2018**	**10/31/2018**
Detected VOCs (ug/m^3) by EPA Method TO-15									
Acetone	14,000,000	140,000	4,620,000	140,000	93.0	84.6	72.8	82.3	103
Benzene	1,600	16	528	16	2.4	0.40J	1.4	2.2	0.40J
Bromomethane	2,200	22	726	22	<0.33	<0.34	<0.32	<0.32	<0.35
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	22.9	52.6	22.7	25.1	72.7
Carbon disulfide	310,000	3,100	102,300	3,100	<0.29	<0.33	<0.28	<0.28	<0.34
Carbon tetrachloride	2,000	20	660	20	0.56J	<0.64	<0.49	<0.49	<0.66
Chlorobenzene	22,000	220	7,260	220	<0.29	<0.41	<0.28	<0.28	<0.43
Chloroform	530	5.3	175	5.3	<0.37	<0.29	<0.36	<0.36	<0.30
Chloromethane	39,000	390	12,870	390	<0.22	0.76	<0.21	<0.21	0.82
Cyclohexane	2,600,000	26,000	858,000	26,000	6.2	1.9J	3.4	5.7	3.7
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.52	<0.74	<0.51	2.5	<0.77
1,3-Dichlorobenzene	--	---	--	---	<0.75	<0.87	<0.72	<0.72	<0.90
1,4-Dichlorobenzene	1,100	11	363	11	178	16.1	217	211	14.6
Dichlorodifluoromethane	44,000	440	14,520	440	3.2	2.2	3.2	3.3	2.2
1,1-Dichloroethane	7,700	77	2,541	77	<0.34	<0.34	<0.33	<0.33	<0.35
1,2-Dichloroethane	470	4.7	155	4.7	0.50J	<0.22	0.49J	0.49J	<0.23
1,1-Dichloroethene	88,000	880	29,040	880	<0.38	<0.41	<0.37	<0.37	<0.42
cis-1,2-Dichloroethene	--	---	--	---	<0.55	<0.33	<0.53	<0.53	<0.34
trans-1,2-Dichloroethene	--	---	--	---	<0.47	<0.42	<0.46	<0.46	<0.44
Ethanol	--	---	--	---	282	206	295	329	249
Ethyl acetate	31,000	310	10,230	310	2.5	1.7	2.1	2.7	1.7
Ethylbenzene	4,900	49	1,617	49	8.9	1.2J	3.6	4.7	1.9
4-Ethyltoluene	--	---	--	---	3.2	<0.85	1.4J	2.0	<0.88
N-Heptane	--	---	--	---	7.3	1.8	4.5	6.0	<0.59
Hexachloro-1,3-butadiene	--	---	--	---	<1.4	<2.9	<1.3	<1.3	<3.1
n-Hexane	310,000	3,100	102,300	3,100	7.1	0.87J	2.8	7.3	0.73J
2-Hexanone	13,000	130	4,290	130	<0.99	<1.1	<0.95	<0.95	<1.2
Methylene Chloride	260,000	2,600	85,800	2,600	33.9	18.1	39.6	39.6	18.5
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.57	0.94J	<0.55	<0.55	1.3J
Naphthalene	360	3.6	119	3.6	6.2	<2.0	4.9	6.4	<2.0
2-Propanol	--	---	--	---	12.4	4.5	11.2	13.8	5.1
Propylene	1,300,000	13,000	429,000	13,000	<0.25	<0.21	<0.24	<0.24	<0.22
Styrene	440,000	4,400	145,200	4,400	29.3	3.9	11.3	12.7	1.1J

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VALs				
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**
Sample I.D.					**IA-16**	**IA-16**	**IA-17**	**IA-18**	**IA-18**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**
Date Collected					**4/6/2018**	**10/31/2018**	**4/6/2018**	**4/6/2018**	**10/31/2018**
Detected VOCs (ug/m^3) by EPA Method TO-15									
Tetrachloroethene	18,000	180	5,940	180	63.5	<0.47	39.5	41.2	<0.49
Tetrahydrofuran	--	---	--	---	3.5	<0.39	2.1	3.9	1.3
Toluene	2,200,000	22,000	726,000	22,000	111	241	80.4	96.2	349
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<1.5	<5.5	<1.5	<1.5	<5.8
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.55	<0.46	<0.53	<0.53	<0.48
Trichloroethene	880	8.8	290	8.8	4.2	1.5	4.5	4.7	1.6
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.5J	1.2J	1.5J	1.6J	1.2J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	0.84J	<0.84	0.84J	0.84J	<0.87
1,2,4-Trimethylbenzene	3,100	31	1,023	31	11.4	0.94J	5.4	10.8	1.1J
1,3,5-Trimethylbenzene	--	---	--	---	3.2	<0.59	1.5J	2.1	<0.62
Vinyl Acetate	88,000	880	29,040	880	1.6	<0.40	1.6	1.9	<0.42
Vinyl Chloride	2,800	28	924	28	<0.20	<0.19	<0.20	<0.20	<0.20
m&p-Xylene	44,000	440	14,520	440	37.3	4.0	13.4	17.8	6.2
o-Xylene	44,000	440	14,520	440	12.5	1.1J	4.5	5.8	1.7

Indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VALs			Compared to Small Commerical VALs		
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**
Sample I.D.					**IA-19**	**IA-20**	**IA-21**	**IAO-1**	**IAO-2**	**IAB-1**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**2/11/2020**	**2/11/2020**	**2/11/2020**	**2/11/2020**	**2/11/2020**	**2/12/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Acetone	14,000,000	140,000	4,620,000	140,000	48.7	24.6	26.1	63.8	51.5	89.7
Benzene	1,600	16	528	16	0.85	0.61	0.66	0.73	0.66	0.75
Bromomethane	2,200	22	726	22	<0.39	<0.40	<0.37	<0.38	<0.40	<0.40
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	21.5	16.0	18.6	8.7	6.5	24.2
Carbon disulfide	310,000	3,100	102,300	3,100	<0.37	<0.38	<0.35	<0.37	<0.38	<0.38
Carbon tetrachloride	2,000	20	660	20	<0.73	<0.75	<0.69	<0.72	<0.75	<0.75
Chlorobenzene	22,000	220	7,260	220	<0.47	<0.48	<0.44	<0.46	<0.48	<0.48
Chloroform	530	5.3	175	5.3	<0.34	<0.34	<0.32	<0.33	<0.34	<0.34
Chloromethane	39,000	390	12,870	390	1.0	0.82	0.85	0.87	1.0	0.88
Cyclohexane	2,600,000	26,000	858,000	26,000	<0.60	<0.62	<0.57	<0.59	<0.62	<0.62
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.85	<0.87	<0.80	<0.84	<0.87	<0.87
1,3-Dichlorobenzene	--	---	--	---	<0.99	<1.0	<0.94	<0.98	<1.0	<1.0
1,4-Dichlorobenzene	1,100	11	363	11	15.3	19.7	17.6	195	172	194
Dichlorodifluoromethane	44,000	440	14,520	440	2.7	2.6	2.4	5.2	4.6	3.8
1,1-Dichloroethane	7,700	77	2,541	77	<0.38	<0.39	<0.36	<0.38	<0.39	<0.39
1,2-Dichloroethane	470	4.7	155	4.7	<0.26	<0.26	<0.24	<0.25	<0.26	<0.26
1,1-Dichloroethene	88,000	880	29,040	880	<0.47	<0.48	<0.44	<0.46	<0.48	<0.48
cis-1,2-Dichloroethene	--	---	--	---	<0.37	<0.38	<0.35	<0.37	<0.38	<0.38
trans-1,2-Dichloroethene	--	---	--	---	<0.49	<0.50	<0.46	<0.48	<0.50	<0.50
Ethanol	--	---	--	---	336	206	216	116	134	97.3
Ethyl acetate	31,000	310	10,230	310	2.0	1.2J	<0.31	0.88J	1.4	1.5
Ethylbenzene	4,900	49	1,617	49	1.6	1.6	1.8	1.1J	0.89J	1.4J
4-Ethyltoluene	--	---	--	---	<0.97	<1.0	<0.92	<0.96	<1.0	<1.0
N-Heptane	--	---	--	---	<0.65	0.73J	0.75J	0.86J	1.0J	2.1
Hexachloro-1,3-butadiene	--	---	--	---	<3.4	<3.4	<3.2	<3.3	<3.4	<3.4
n-Hexane	310,000	3,100	102,300	3,100	1.8	1.1J	<0.50	0.93J	0.88J	1.2J
2-Hexanone	13,000	130	4,290	130	<1.3	<1.3	<1.2	<1.3	<1.3	<1.3
Methylene Chloride	260,000	2,600	85,800	2,600	21.3	17.0	15.9	11.4	8.0	14.9
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.89	<0.91	<0.83	<0.87	<0.91	<0.91
Naphthalene	360	3.6	119	3.6	2.9J	<2.3	<2.1	<2.2	<2.3	<2.3
2-Propanol	--	---	--	---	13.8	3.1J	3.7J	12.4	9.0	8.5
Propylene	1,300,000	13,000	429,000	13,000	<0.24	<0.24	<0.23	<0.24	<0.24	<0.24
Styrene	440,000	4,400	145,200	4,400	5.8	1.4J	1.9	1.5	2.0	1.5

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VALs			Compared to Small Commerical VALs		
Sample Type - Background Air, Indoor Air, or Sub-Slab	**LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**LARGE COMMERCIAL Target Indoor Air Vapor Action Levels**	**SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels**	**SMALL COMMERCIAL Target Indoor Air Vapor Action Levels**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**
Sample I.D.					**IA-19**	**IA-20**	**IA-21**	**IAO-1**	**IAO-2**	**IAB-1**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**2/11/2020**	**2/11/2020**	**2/11/2020**	**2/11/2020**	**2/11/2020**	**2/12/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Tetrachloroethene	18,000	180	5,940	180	8.1	3.5	4.3	3.3	2.4	9.2
Tetrahydrofuran	--	---	--	---	1.4	<0.46	<0.42	<0.44	<0.46	<0.46
Toluene	2,200,000	22,000	726,000	22,000	210	159	161	71.6	51.0	145
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<6.4	<6.5	<6.0	<6.2	<6.5	<6.5
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.53	<0.54	<0.50	<0.52	<0.54	<0.54
Trichloroethene	880	8.8	290	8.8	1.8	1.5	1.4	0.86J	0.52J	1.3
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.3J	1.3J	2.1	1.3J	1.4J	1.4J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<0.96	<0.99	<0.91	<0.95	<0.99	<0.99
1,2,4-Trimethylbenzene	3,100	31	1,023	31	2.0	2.0	2.1	2.0	1.7J	3.2
1,3,5-Trimethylbenzene	--	---	--	---	1.2J	0.90J	0.92J	1.0J	0.99J	1.3J
Vinyl Acetate	88,000	880	29,040	880	<0.46	<0.47	<0.43	<0.45	<0.47	<0.47
Vinyl Chloride	2,800	28	924	28	<0.22	<0.22	<0.20	<0.21	<0.22	<0.22
m&p-Xylene	44,000	440	14,520	440	4.8	4.9	5.5	3.1	2.5J	3.9
o-Xylene	44,000	440	14,520	440	1.2J	1.3J	1.6	<0.58	<0.60	0.72J

Indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

Table 2. Pre- and Post System Installation Building Pressure Readings

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Indoor Air Pressure Readings (inches of water)																
Location	**Office**	**Manufacturing Department**		**Shipping Department**			**Manufacturing Department**						**Shipping Department**		**Manufacturing Department**	
Date	**BP-1**	**BP-2**	**BP-3**	**BP-4**	**BP-5**	**BP-6**	**BP-7**	**BP-8**	**BP-9**	**BBP-1**	**BBP-2**	**BBP-3**	**BBP-4**	**BBP-5**	**BBP-6**	**Vapor Mitigation System**
1/16/2018	0.083	0.040	0.050	0.038	0.035	0.028	0.025	0.028	NA	NM	NM	NM	NM	NM	NM	Pre-Installation
4/5/2018	-0.014	-0.022	-0.018	-0.017	-0.002	-0.006	-0.010	-0.024	-0.018	NM	NM	NM	NM	NM	NM	Post Installation
4/20/2018	-0.008	-0.019	-0.009	-0.004	-0.005	-0.011	-0.011	-0.014	-0.012	NM	NM	NM	NM	NM	NM	
7/3/2018	0.012	0.011	0.014	0.012	0.011	0.012	0.002	0.008	0.003	NM	NM	NM	NM	NM	NM	
7/19/2018	0.020	0.020	0.012	0.006	0.012	0.022	0.014	0.007	0.004	NM	NM	NM	NM	NM	NM	
10/30/2018	0.061	0.032	0.007	0.012	0.027	0.026	0.016	0.028	0.020	NM	NM	NM	NM	NM	NM	
2/11/2020	0.006	0.023	0.040	0.020	0.002	0.017	0.004	0.002	0.024	0.020	0.020	0.007	0.011	0.007	0.015	

Sub-Slab Pressure Readings (inches of water)													
Location	**Manufacturing Department**			**Shipping Department**			**Manufacturing Department**				**Office**	**Basement**	**Office**	
Date	**SS-1**	**SS-2**	**SS-3**	**SS-4**	**SS-5**	**SS-6**	**SS-7**	**SS-8**	**SS-9**	**SS-10**	**SS-11**	**SS-12**	**SS-13**	**System Installation**
7/19/2018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	NM	NM	NM	Post Installation
10/30/2018	0.000	0.000	0.000	0.000	0.000	-0.010	0.000	0.000	-0.001	-0.005	NM	NM	NM	
2/11/2020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Measurements collected with hand-held micromanometer.

Indoor air pressure readings are in relation to outdoor air.

Sub-slab pressure readings are in relation to indoor air.

Sub-slab pressure points SS-1 through SS-13 are designed to collect data from immediately below the concrete floor.

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/1/2020 0:00	0.01
1/1/2020 2:00	0.01
1/1/2020 4:00	0.01
1/1/2020 6:00	0.01
1/1/2020 8:00	0.02
1/1/2020 10:00	0.01
1/1/2020 12:00	0.03
1/1/2020 14:00	0.01
1/1/2020 16:00	0.03
1/1/2020 18:00	0.02
1/1/2020 20:00	0.03
1/1/2020 22:00	0.02
1/2/2020 0:00	0.01
1/2/2020 2:00	0.03
1/2/2020 4:00	0.03
1/2/2020 6:00	0.03
1/2/2020 8:00	0.02
1/2/2020 10:00	0.03
1/2/2020 12:00	0.03
1/2/2020 14:00	0.02
1/2/2020 16:00	0.02
1/2/2020 18:00	0.01
1/2/2020 20:00	0.01
1/2/2020 22:00	0.01
1/3/2020 0:00	0.01
1/3/2020 2:00	0.01
1/3/2020 4:00	0.01
1/3/2020 6:00	0.02
1/3/2020 8:00	-0.01
1/3/2020 10:00	0.00
1/3/2020 12:00	-0.01
1/3/2020 14:00	0.01
1/3/2020 16:00	0.01
1/3/2020 18:00	0.01
1/3/2020 20:00	0.01
1/3/2020 22:00	0.01
1/4/2020 0:00	0.01
1/4/2020 2:00	0.01
1/4/2020 4:00	0.01
1/4/2020 6:00	0.01
1/4/2020 8:00	0.02
1/4/2020 10:00	0.02
1/4/2020 12:00	0.02
1/4/2020 14:00	0.01
1/4/2020 16:00	0.04
1/4/2020 18:00	0.02
1/4/2020 20:00	0.01
1/4/2020 22:00	0.01
1/5/2020 0:00	0.01
1/5/2020 2:00	0.01
1/5/2020 4:00	0.01
1/5/2020 6:00	0.01
1/5/2020 8:00	0.01
1/5/2020 10:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/5/2020 12:00	0.01
1/5/2020 14:00	0.02
1/5/2020 16:00	0.05
1/5/2020 18:00	0.05
1/5/2020 20:00	0.03
1/5/2020 22:00	0.04
1/6/2020 0:00	0.02
1/6/2020 2:00	0.02
1/6/2020 4:00	0.02
1/6/2020 6:00	0.02
1/6/2020 8:00	0.03
1/6/2020 10:00	0.04
1/6/2020 12:00	0.03
1/6/2020 14:00	0.02
1/6/2020 16:00	0.02
1/6/2020 18:00	0.01
1/6/2020 20:00	0.01
1/6/2020 22:00	0.01
1/7/2020 0:00	0.02
1/7/2020 2:00	0.01
1/7/2020 4:00	0.01
1/7/2020 6:00	0.02
1/7/2020 8:00	0.02
1/7/2020 10:00	0.03
1/7/2020 12:00	0.03
1/7/2020 14:00	0.03
1/7/2020 16:00	0.02
1/7/2020 18:00	0.04
1/7/2020 20:00	0.04
1/7/2020 22:00	0.05
1/8/2020 0:00	0.01
1/8/2020 2:00	0.01
1/8/2020 4:00	0.02
1/8/2020 6:00	0.01
1/8/2020 8:00	0.00
1/8/2020 10:00	0.01
1/8/2020 12:00	0.01
1/8/2020 14:00	0.01
1/8/2020 16:00	0.01
1/8/2020 18:00	0.02
1/8/2020 20:00	0.02
1/8/2020 22:00	0.02
1/9/2020 0:00	0.02
1/9/2020 2:00	0.03
1/9/2020 4:00	0.02
1/9/2020 6:00	0.02
1/9/2020 8:00	0.02
1/9/2020 10:00	0.02
1/9/2020 12:00	0.04
1/9/2020 14:00	0.04
1/9/2020 16:00	0.03
1/9/2020 18:00	0.02
1/9/2020 20:00	0.03
1/9/2020 22:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/10/2020 0:00	0.02
1/10/2020 2:00	0.02
1/10/2020 4:00	0.02
1/10/2020 6:00	0.01
1/10/2020 8:00	0.01
1/10/2020 10:00	0.01
1/10/2020 12:00	0.01
1/10/2020 14:00	0.00
1/10/2020 16:00	0.04
1/10/2020 18:00	0.02
1/10/2020 20:00	0.01
1/10/2020 22:00	0.04
1/11/2020 0:00	0.01
1/11/2020 2:00	0.01
1/11/2020 4:00	-0.01
1/11/2020 6:00	0.01
1/11/2020 8:00	0.01
1/11/2020 10:00	0.02
1/11/2020 12:00	0.01
1/11/2020 14:00	0.02
1/11/2020 16:00	0.00
1/11/2020 18:00	-0.01
1/11/2020 20:00	0.01
1/11/2020 22:00	0.02
1/12/2020 0:00	0.01
1/12/2020 2:00	0.01
1/12/2020 4:00	0.02
1/12/2020 6:00	0.01
1/12/2020 8:00	0.02
1/12/2020 10:00	0.02
1/12/2020 12:00	0.02
1/12/2020 14:00	0.02
1/12/2020 16:00	0.02
1/12/2020 18:00	0.02
1/12/2020 20:00	0.01
1/12/2020 22:00	0.02
1/13/2020 0:00	0.01
1/13/2020 2:00	0.01
1/13/2020 4:00	0.02
1/13/2020 6:00	0.02
1/13/2020 8:00	0.02
1/13/2020 10:00	0.02
1/13/2020 12:00	0.01
1/13/2020 14:00	0.01
1/13/2020 16:00	0.02
1/13/2020 18:00	0.02
1/13/2020 20:00	0.03
1/13/2020 22:00	0.02
1/14/2020 0:00	0.01
1/14/2020 2:00	0.01
1/14/2020 4:00	0.01
1/14/2020 6:00	0.01
1/14/2020 8:00	0.02
1/14/2020 10:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/14/2020 12:00	0.04
1/14/2020 14:00	0.02
1/14/2020 16:00	0.02
1/14/2020 18:00	0.01
1/14/2020 20:00	0.01
1/14/2020 22:00	0.01
1/15/2020 0:00	0.01
1/15/2020 2:00	0.01
1/15/2020 4:00	0.01
1/15/2020 6:00	0.01
1/15/2020 8:00	0.02
1/15/2020 10:00	0.01
1/15/2020 12:00	0.01
1/15/2020 14:00	0.01
1/15/2020 16:00	0.01
1/15/2020 18:00	0.03
1/15/2020 20:00	0.02
1/15/2020 22:00	0.02
1/16/2020 0:00	0.03
1/16/2020 2:00	0.05
1/16/2020 4:00	0.05
1/16/2020 6:00	0.02
1/16/2020 8:00	0.01
1/16/2020 10:00	0.03
1/16/2020 12:00	0.01
1/16/2020 14:00	0.03
1/16/2020 16:00	0.02
1/16/2020 18:00	0.02
1/16/2020 20:00	0.02
1/16/2020 22:00	0.01
1/17/2020 0:00	0.01
1/17/2020 2:00	0.01
1/17/2020 4:00	0.01
1/17/2020 6:00	0.02
1/17/2020 8:00	0.01
1/17/2020 10:00	0.02
1/17/2020 12:00	0.01
1/17/2020 14:00	0.03
1/17/2020 16:00	0.04
1/17/2020 18:00	0.03
1/17/2020 20:00	0.03
1/17/2020 22:00	0.04
1/18/2020 0:00	0.03
1/18/2020 2:00	0.02
1/18/2020 4:00	0.02
1/18/2020 6:00	0.02
1/18/2020 8:00	0.01
1/18/2020 10:00	0.02
1/18/2020 12:00	0.01
1/18/2020 14:00	0.04
1/18/2020 16:00	0.05
1/18/2020 18:00	0.04
1/18/2020 20:00	0.01
1/18/2020 22:00	0.03

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/19/2020 0:00	0.03
1/19/2020 2:00	0.04
1/19/2020 4:00	0.03
1/19/2020 6:00	0.01
1/19/2020 8:00	0.03
1/19/2020 10:00	0.03
1/19/2020 12:00	0.02
1/19/2020 14:00	0.01
1/19/2020 16:00	0.01
1/19/2020 18:00	0.01
1/19/2020 20:00	0.02
1/19/2020 22:00	0.01
1/20/2020 0:00	0.01
1/20/2020 2:00	0.01
1/20/2020 4:00	0.01
1/20/2020 6:00	0.01
1/20/2020 8:00	0.01
1/20/2020 10:00	0.02
1/20/2020 12:00	0.01
1/20/2020 14:00	0.01
1/20/2020 16:00	0.01
1/20/2020 18:00	0.01
1/20/2020 20:00	0.01
1/20/2020 22:00	0.01
1/21/2020 0:00	0.01
1/21/2020 2:00	0.01
1/21/2020 4:00	0.02
1/21/2020 6:00	0.01
1/21/2020 8:00	-0.01
1/21/2020 10:00	0.01
1/21/2020 12:00	0.01
1/21/2020 14:00	0.06
1/21/2020 16:00	0.02
1/21/2020 18:00	0.01
1/21/2020 20:00	0.02
1/21/2020 22:00	0.02
1/22/2020 0:00	0.02
1/22/2020 2:00	0.02
1/22/2020 4:00	0.02
1/22/2020 6:00	0.02
1/22/2020 8:00	0.02
1/22/2020 10:00	0.02
1/22/2020 12:00	0.03
1/22/2020 14:00	0.01
1/22/2020 16:00	0.01
1/22/2020 18:00	0.01
1/22/2020 20:00	0.01
1/22/2020 22:00	0.02
1/23/2020 0:00	0.02
1/23/2020 2:00	0.01
1/23/2020 4:00	0.01
1/23/2020 6:00	0.01
1/23/2020 8:00	0.01
1/23/2020 10:00	0.01

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/23/2020 12:00	0.01
1/23/2020 14:00	0.02
1/23/2020 16:00	0.01
1/23/2020 18:00	0.02
1/23/2020 20:00	0.02
1/23/2020 22:00	0.02
1/24/2020 0:00	0.02
1/24/2020 2:00	0.02
1/24/2020 4:00	0.02
1/24/2020 6:00	0.02
1/24/2020 8:00	0.02
1/24/2020 10:00	0.02
1/24/2020 12:00	0.01
1/24/2020 14:00	0.01
1/24/2020 16:00	0.01
1/24/2020 18:00	0.02
1/24/2020 20:00	0.01
1/24/2020 22:00	0.01
1/25/2020 0:00	0.01
1/25/2020 2:00	0.01
1/25/2020 4:00	0.01
1/25/2020 6:00	0.01
1/25/2020 8:00	0.02
1/25/2020 10:00	0.02
1/25/2020 12:00	0.01
1/25/2020 14:00	0.03
1/25/2020 16:00	0.01
1/25/2020 18:00	0.02
1/25/2020 20:00	0.01
1/25/2020 22:00	0.02
1/26/2020 0:00	0.02
1/26/2020 2:00	0.03
1/26/2020 4:00	0.02
1/26/2020 6:00	0.02
1/26/2020 8:00	0.02
1/26/2020 10:00	0.03
1/26/2020 12:00	0.02
1/26/2020 14:00	0.02
1/26/2020 16:00	0.02
1/26/2020 18:00	0.02
1/26/2020 20:00	0.01
1/26/2020 22:00	0.01
1/27/2020 0:00	0.01
1/27/2020 2:00	0.01
1/27/2020 4:00	0.01
1/27/2020 6:00	0.01
1/27/2020 8:00	0.01
1/27/2020 10:00	0.01
1/27/2020 12:00	0.02
1/27/2020 14:00	0.01
1/27/2020 16:00	0.01
1/27/2020 18:00	0.01
1/27/2020 20:00	0.01
1/27/2020 22:00	0.01

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/28/2020 0:00	0.01
1/28/2020 2:00	0.01
1/28/2020 4:00	0.02
1/28/2020 6:00	0.01
1/28/2020 8:00	0.01
1/28/2020 10:00	0.02
1/28/2020 12:00	0.02
1/28/2020 14:00	0.02
1/28/2020 16:00	0.01
1/28/2020 18:00	0.01
1/28/2020 20:00	0.01
1/28/2020 22:00	0.01
1/29/2020 0:00	0.01
1/29/2020 2:00	0.01
1/29/2020 4:00	0.01
1/29/2020 6:00	0.01
1/29/2020 8:00	-0.01
1/29/2020 10:00	0.00
1/29/2020 12:00	0.01
1/29/2020 14:00	0.01
1/29/2020 16:00	0.01
1/29/2020 18:00	0.01
1/29/2020 20:00	0.01
1/29/2020 22:00	0.01
1/30/2020 0:00	0.01
1/30/2020 2:00	0.01
1/30/2020 4:00	0.02
1/30/2020 6:00	0.02
1/30/2020 8:00	0.01
1/30/2020 10:00	0.01
1/30/2020 12:00	0.01
1/30/2020 14:00	0.01
1/30/2020 16:00	0.02
1/30/2020 18:00	0.01
1/30/2020 20:00	0.02
1/30/2020 22:00	0.01
1/31/2020 0:00	0.02
1/31/2020 2:00	0.02
1/31/2020 4:00	0.01
1/31/2020 6:00	0.01
1/31/2020 8:00	0.01
1/31/2020 10:00	0.01
1/31/2020 12:00	-0.01
1/31/2020 14:00	0.00
1/31/2020 16:00	0.01
1/31/2020 18:00	0.01
1/31/2020 20:00	0.01
1/31/2020 22:00	0.01
Monthly Average	**0.02**
2/1/2020 0:00	0.01
2/1/2020 2:00	0.01
2/1/2020 4:00	0.01
2/1/2020 6:00	0.02
2/1/2020 8:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
2/1/2020 10:00	0.02
2/1/2020 12:00	0.05
2/1/2020 14:00	0.03
2/1/2020 16:00	0.03
2/1/2020 18:00	0.02
2/1/2020 20:00	0.02
2/1/2020 22:00	0.03
2/2/2020 0:00	0.03
2/2/2020 2:00	0.02
2/2/2020 4:00	0.05
2/2/2020 6:00	0.03
2/2/2020 8:00	0.03
2/2/2020 10:00	0.08
2/2/2020 12:00	0.03
2/2/2020 14:00	0.03
2/2/2020 16:00	0.02
2/2/2020 18:00	0.02
2/2/2020 20:00	0.01
2/2/2020 22:00	0.01
2/3/2020 0:00	0.01
2/3/2020 2:00	0.01
2/3/2020 4:00	0.01
2/3/2020 6:00	0.01
2/3/2020 8:00	0.01
2/3/2020 10:00	0.02
2/3/2020 12:00	0.02
2/3/2020 14:00	0.02
2/3/2020 16:00	0.03
2/3/2020 18:00	0.01
2/3/2020 20:00	0.02
2/3/2020 22:00	0.02
2/4/2020 0:00	0.00
2/4/2020 2:00	0.03
2/4/2020 4:00	0.02
2/4/2020 6:00	0.01
2/4/2020 8:00	0.03
2/4/2020 10:00	0.00
2/4/2020 12:00	0.00
2/4/2020 14:00	0.01
2/4/2020 16:00	0.01
2/4/2020 18:00	0.01
2/4/2020 20:00	0.01
2/4/2020 22:00	0.01
2/5/2020 0:00	0.01
2/5/2020 2:00	0.01
2/5/2020 4:00	0.02
2/5/2020 6:00	0.01
2/5/2020 8:00	0.01
2/5/2020 10:00	0.02
2/5/2020 12:00	0.02
2/5/2020 14:00	0.03
2/5/2020 16:00	0.03
2/5/2020 18:00	0.02
2/5/2020 20:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
2/5/2020 22:00	0.01
2/6/2020 0:00	0.02
2/6/2020 2:00	0.01
2/6/2020 4:00	0.02
2/6/2020 6:00	0.02
2/6/2020 8:00	0.01
2/6/2020 10:00	0.01
2/6/2020 12:00	0.01
2/6/2020 14:00	0.01
2/6/2020 16:00	0.01
2/6/2020 18:00	0.01
2/6/2020 20:00	0.02
2/6/2020 22:00	0.01
2/7/2020 0:00	0.01
2/7/2020 2:00	0.02
2/7/2020 4:00	0.01
2/7/2020 6:00	0.01
2/7/2020 8:00	0.01
2/7/2020 10:00	0.01
2/7/2020 12:00	0.02
2/7/2020 14:00	0.02
2/7/2020 16:00	0.02
2/7/2020 18:00	0.02
2/7/2020 20:00	0.01
2/7/2020 22:00	0.01
2/8/2020 0:00	0.01
2/8/2020 2:00	0.01
2/8/2020 4:00	0.02
2/8/2020 6:00	0.02
2/8/2020 8:00	0.01
2/8/2020 10:00	0.03
2/8/2020 12:00	0.01
2/8/2020 14:00	0.02
2/8/2020 16:00	0.02
2/8/2020 18:00	0.01
2/8/2020 20:00	0.01
2/8/2020 22:00	0.01
2/9/2020 0:00	0.01
2/9/2020 2:00	0.01
2/9/2020 4:00	0.01
2/9/2020 6:00	0.03
2/9/2020 8:00	0.02
2/9/2020 10:00	0.05
2/9/2020 12:00	0.03
2/9/2020 14:00	0.02
2/9/2020 16:00	0.02
2/9/2020 18:00	0.01
2/9/2020 20:00	0.03
2/9/2020 22:00	0.01
2/10/2020 0:00	0.01
2/10/2020 2:00	0.01
2/10/2020 4:00	0.02
2/10/2020 6:00	0.02
2/10/2020 8:00	0.01

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
2/10/2020 10:00	0.01
2/10/2020 12:00	0.02
2/10/2020 14:00	0.02
2/10/2020 16:00	0.02
2/10/2020 18:00	0.01
2/10/2020 20:00	0.02
2/10/2020 22:00	0.01
2/11/2020 0:00	0.02
2/11/2020 2:00	0.02
2/11/2020 4:00	0.01
2/11/2020 6:00	0.01
2/11/2020 8:00	0.03
2/11/2020 10:00	0.02
2/11/2020 12:00	0.04
2/11/2020 14:00	0.04
2/11/2020 16:00	0.01
2/11/2020 18:00	0.02
2/11/2020 20:00	0.02
2/11/2020 22:00	0.02
2/12/2020 0:00	0.02
2/12/2020 2:00	0.02
2/12/2020 4:00	0.01
2/12/2020 6:00	0.02
2/12/2020 8:00	0.01
2/12/2020 10:00	0.01
2/12/2020 12:00	0.02
2/12/2020 14:00	0.02
2/12/2020 16:00	0.02
2/12/2020 18:00	0.01
2/12/2020 20:00	0.02
2/12/2020 22:00	0.01
2/13/2020 0:00	0.01
2/13/2020 2:00	0.03
2/13/2020 4:00	0.01
2/13/2020 6:00	0.01
2/13/2020 8:00	0.01
2/13/2020 10:00	0.01
2/13/2020 12:00	0.02
2/13/2020 14:00	0.03
2/13/2020 16:00	0.01
2/13/2020 18:00	0.01
2/13/2020 20:00	0.02
2/13/2020 22:00	0.03
2/14/2020 0:00	0.02
2/14/2020 2:00	0.01
2/14/2020 4:00	0.01
2/14/2020 6:00	0.01
2/14/2020 8:00	0.01
2/14/2020 10:00	0.01
2/14/2020 12:00	0.00
2/14/2020 14:00	0.02
2/14/2020 16:00	0.01
2/14/2020 18:00	0.03
2/14/2020 20:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
2/14/2020 22:00	0.01
2/15/2020 0:00	0.03
2/15/2020 2:00	0.02
2/15/2020 4:00	0.04
2/15/2020 6:00	0.03
2/15/2020 8:00	0.05
2/15/2020 10:00	0.03
2/15/2020 12:00	0.05
2/15/2020 14:00	0.05
2/15/2020 16:00	0.02
2/15/2020 18:00	0.02
2/15/2020 20:00	0.01
2/15/2020 22:00	0.02
2/16/2020 0:00	0.01
2/16/2020 2:00	0.01
2/16/2020 4:00	0.01
2/16/2020 6:00	0.01
2/16/2020 8:00	0.01
2/16/2020 10:00	0.01
2/16/2020 12:00	0.02
2/16/2020 14:00	0.01
2/16/2020 16:00	0.01
2/16/2020 18:00	0.01
2/16/2020 20:00	0.01
2/16/2020 22:00	0.02
2/17/2020 0:00	0.02
2/17/2020 2:00	0.02
2/17/2020 4:00	0.03
2/17/2020 6:00	0.02
2/17/2020 8:00	0.03
2/17/2020 10:00	0.03
2/17/2020 12:00	0.02
2/17/2020 14:00	0.03
2/17/2020 16:00	0.04
2/17/2020 18:00	0.02
2/17/2020 20:00	0.03
2/17/2020 22:00	0.02
2/18/2020 0:00	0.01
2/18/2020 2:00	0.04
2/18/2020 4:00	0.03
2/18/2020 6:00	0.01
2/18/2020 8:00	0.05
2/18/2020 10:00	0.01
2/18/2020 12:00	0.04
2/18/2020 14:00	0.03
2/18/2020 16:00	0.02
2/18/2020 18:00	0.02
2/18/2020 20:00	0.02
2/18/2020 22:00	0.02
2/19/2020 0:00	0.02
2/19/2020 2:00	0.02
2/19/2020 4:00	0.02
2/19/2020 6:00	0.02
2/19/2020 8:00	0.01

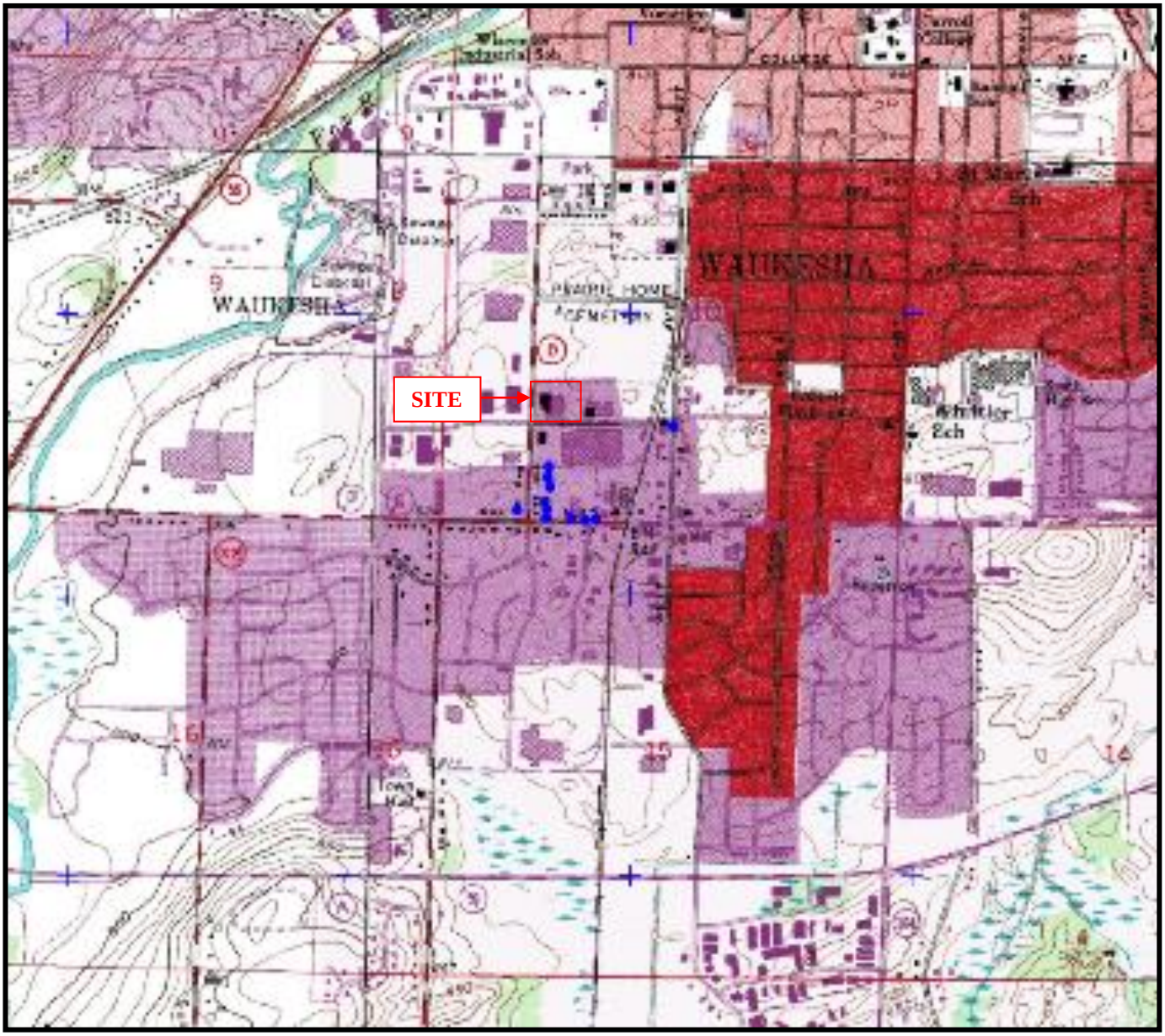
Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
2/19/2020 10:00	0.02
2/19/2020 12:00	0.02
2/19/2020 14:00	0.03
2/19/2020 16:00	0.03
2/19/2020 18:00	0.01
2/19/2020 20:00	0.02
2/19/2020 22:00	0.01
2/20/2020 0:00	0.02
2/20/2020 2:00	0.01
2/20/2020 4:00	0.02
2/20/2020 6:00	0.01
2/20/2020 8:00	0.00
2/20/2020 10:00	0.00
2/20/2020 12:00	0.01
2/20/2020 14:00	0.00
2/20/2020 16:00	0.02
2/20/2020 18:00	0.02
2/20/2020 20:00	0.02
2/20/2020 22:00	0.02
2/21/2020 0:00	0.02
2/21/2020 2:00	0.02
2/21/2020 4:00	0.03
2/21/2020 6:00	0.01
2/21/2020 8:00	0.01
2/21/2020 10:00	0.02
2/21/2020 12:00	0.01
2/21/2020 14:00	0.03
2/21/2020 16:00	0.01
2/21/2020 18:00	0.03
2/21/2020 20:00	0.03
2/21/2020 22:00	0.04
2/22/2020 0:00	0.02
2/22/2020 2:00	0.02
2/22/2020 4:00	0.02
2/22/2020 6:00	0.02
2/22/2020 8:00	0.03
2/22/2020 10:00	0.05
2/22/2020 12:00	0.03
2/22/2020 14:00	0.04
2/22/2020 16:00	0.02
2/22/2020 18:00	0.02
2/22/2020 20:00	0.01
2/22/2020 22:00	0.02
2/23/2020 0:00	0.03
2/23/2020 2:00	0.01
2/23/2020 4:00	0.01
2/23/2020 6:00	0.02
2/23/2020 8:00	0.02
2/23/2020 10:00	0.03
2/23/2020 12:00	0.02
2/23/2020 14:00	0.02
2/23/2020 16:00	0.03
2/23/2020 18:00	0.02
2/23/2020 20:00	0.01

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
2/23/2020 22:00	0.01
2/24/2020 0:00	0.01
2/24/2020 2:00	0.01
2/24/2020 4:00	0.01
2/24/2020 6:00	0.01
2/24/2020 8:00	0.02
2/24/2020 10:00	0.02
2/24/2020 12:00	0.03
2/24/2020 14:00	0.02
2/24/2020 16:00	0.01
2/24/2020 18:00	0.03
2/24/2020 20:00	0.02
2/24/2020 22:00	0.02
2/25/2020 0:00	0.03
2/25/2020 2:00	0.02
2/25/2020 4:00	0.01
2/25/2020 6:00	0.02
2/25/2020 8:00	0.01
2/25/2020 10:00	0.04
2/25/2020 12:00	0.00
Monthly Average	**0.02**

Figures



● LOCATION OF POSSIBLE WATER WELL

N

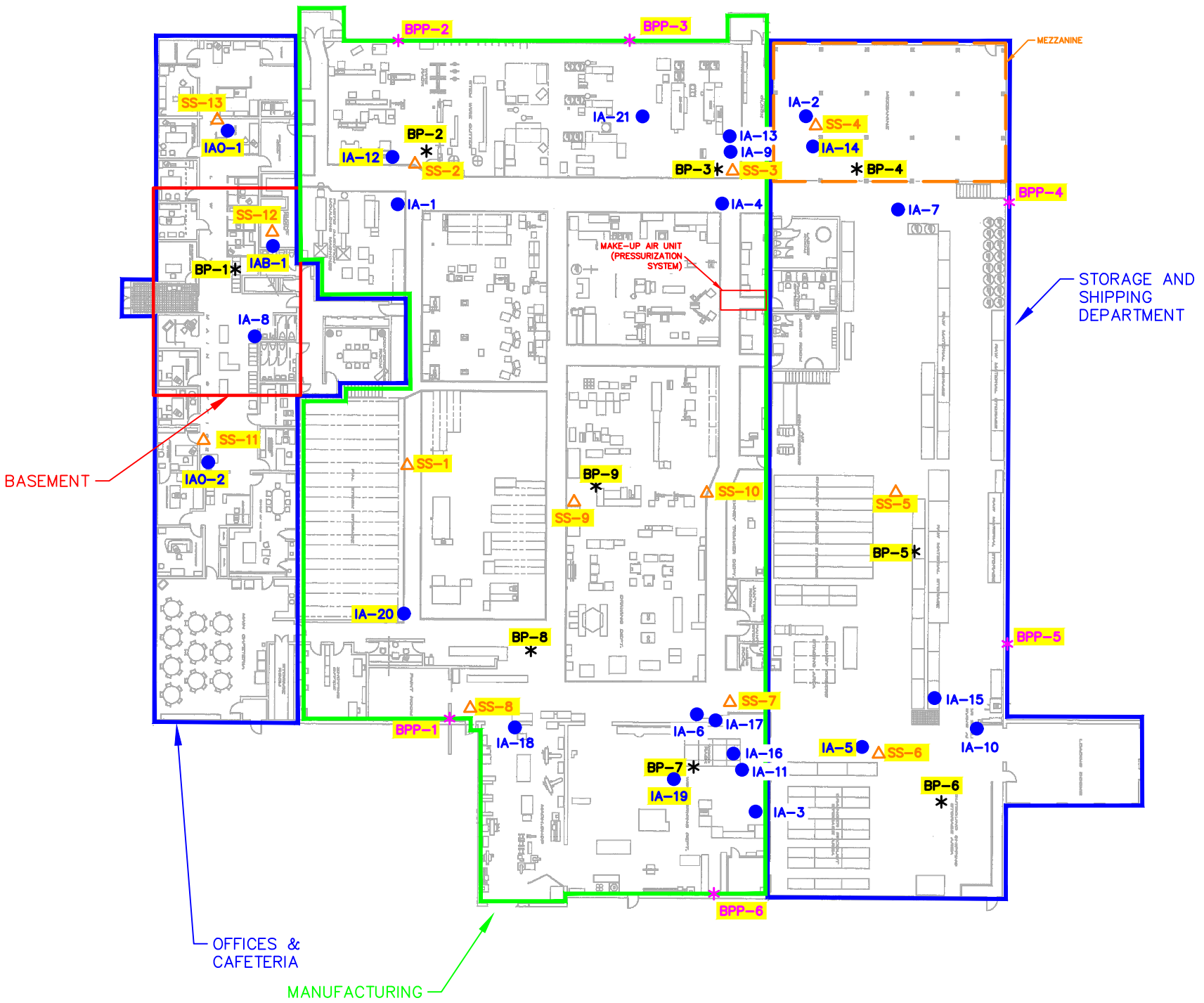
DESIGNED BY TLS	DATE December 23, 2015
DRAWN BY TLS	PROJECT 2503014.1
APPROVED BY TLS	SHEET NO. 1
SOURCE Muskego, Wisconsin Quadrangle Map 1994 Scale 1:24,000	

FIGURE 1
SITE LOCATION AND WATER WELL MAP
SCHAEFER BRUSH
1101 SOUTH PRAIRIE AVENUE
WAUKESHA, WISCONSIN

KEY ENGINEERING GROUP LTD.

LEGEND

- PERMANENT SUB-SLAB VAPOR PIN
- INDOOR AIR SAMPLE
- INDOOR AIR BUILDING PRESSURE LOCATION
- INDOOR AIR BUILDING PRESSURE PORT LOCATION



SCALE IN FEET

40' 0 40'

DESIGNED BY TLS	DATE 2/25/2020
DRAWN BY RJN	PROJECT 2503001.1
APPROVED BY TLS	SHEET NO. 1
CADFILE XREF LMAN	

FIGURE 2
INTERIOR FACILITY SAMPLING LOCATIONS
SCHAEFER BRUSH
1101 SOUTH PRAIRIE AVENUE
WAUKESHA, WI

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

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LEGEND

- PERMANENT SUB-SLAB VAPOR PIN
- INDOOR AIR SAMPLE
- INDOOR AIR BUILDING PRESSURE LOCATION
- INDOOR AIR BUILDING PRESSURE PORT LOCATION

SS-2	10/31/2018	2/11/2020
14DCB	<1.8	3.5J
NAPH	5.5	6.1
PCE	200	52.7
TCE	2.5	<0.49

SS-3	2/11/2020
14DCB	<28.8
NAPH	<37.7
PCE	**156,000**
TCE	68.1

SS-4	10/31/2018	2/11/2020
14DCB	<1.8	<57.6
NAPH	3.7J	<75.5
PCE	**493,000**	**654,000**
TCE	**1,260**	**1,010**

SS-13	2/11/2020
14DCB	4.4J
NAPH	7.4
PCE	0.88J
TCE	<0.49

SS-12	2/11/2020
14DCB	5.0J
NAPH	7.9
PCE	0.91J
TCE	95.8

SS-11	2/11/2020
14DCB	6.5
NAPH	7.2
PCE	0.76J
TCE	6.9

SS-7	10/31/2018	2/11/2020
14DCB	<1.8	4.6J
NAPH	17.6	8.0
PCE	13,700	**36,800**
TCE	33.8	34.6

SS-8	10/31/2018	2/11/2020
14DCB	<1.8	<1.9
NAPH	6.2	6.5
PCE	8,850	46.8
TCE	16.1	1.4

SS-6	10/31/2018
14DCB	29.J
NAPH	5.9
PCE	1,690
TCE	0.80J

BPP-1, BPP-2, BPP-3, BPP-4, BPP-5, BPP-6
BP-1, BP-2, BP-3, BP-4, BP-5, BP-6, BP-7, BP-8, BP-9
SS-1, SS-2, SS-3, SS-4, SS-5, SS-6, SS-7, SS-8, SS-9, SS-10, SS-11, SS-12, SS-13
IA-1, IA-2, IA-3, IA-4, IA-5, IA-6, IA-7, IA-8, IA-9, IA-10, IA-11, IA-12, IA-13, IA-14, IA-15, IA-16, IA-17, IA-18, IA-19, IA-20, IA-21
IAO-1, IAO-2, IAB-1

MEZZANINE
MAKE-UP AIR UNIT (PRESSURIZATION SYSTEM)
STORAGE AND SHIPPING DEPARTMENT
BASEMENT
OFFICES & CAFETERIA
MANUFACTURING

NOTES:

INDOOR AIR CONCENTRATIONS ARE ITALICIZED IF ABOVE THE LARGE COMMERCIAL TARGET INDOOR AIR VAPOR ACTION LEVELS

CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER CUBIC METER

SUB-SLAB VAPOR CONCENTRATIONS ARE BOLD IF ABOVE LARGE COMMERCIAL TARGET VAPOR RISK SCREENING LEVELS

14DCB	1,4-DICHLOROBENZENE
NAPTH	NAPHTHALENE
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE

SCALE IN FEET
40' 0 40'

DESIGNED BY: TLS	DATE: 2/25/2020
DRAWN BY: RJN	PROJECT: 2503001.1
APPROVED BY: TLS	SHEET NO.: 1
CADFILE XREF LMAN	

FIGURE 3
POST REMEDIAL SUB-SLAB ANALYTICAL RESULTS
SCHAEFER BRUSH
1101 SOUTH PRAIRIE AVENUE
WAUKESHA, WI

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

LEGEND

- PERMANENT SUB-SLAB VAPOR PIN
- INDOOR AIR SAMPLE
- INDOOR AIR BUILDING PRESSURE LOCATION
- INDOOR AIR BUILDING PRESSURE PORT LOCATION

IA-12	4/6/2018	10/31/2018	2/11/2020
14DCB	*211*	*13.7*	*18.5*
NAPH	*5.7*	<2.0	<2.2
PCE	30.0	0.54J	<0.44
TCE	4.1	1.5	1.6

IA-13	4/6/2018
14DCB	*226*
NAPH	*4.7*
PCE	32.2
TCE	4.8

IA-14	4/6/2018	10/31/2018	2/11/2020
14DCB	*163*	*38.3*	*18.4*
NAPH	*5.2*	1.9J	<2.2
PCE	118	1.7	16.8
TCE	3.7	1.5	1.5

IA-21	2/11/2020
14DCB	*17.6*
NAPH	<2.0
PCE	4.3
TCE	1.4

IA-9	10/31/2018
14DCB	*14.8*
NAPH	*17.5*
PCE	<0.47
TCE	1.6

IA0-1	2/11/2020
14DCB	*195*
NAPH	<2.2
PCE	3.3
TCE	0.86J

IAB-1	2/11/2020
14DCB	*194*
NAPH	<2.3
PCE	9.2
TCE	1.3

IAO-2	2/11/2020
14DCB	*172*
NAPH	<2.3
PCE	2.4
TCE	0.52J

IA-17	4/6/2018
14DCB	*217*
NAPH	*4.9*
PCE	39.5
TCE	4.5

IA-15	4/6/2018
14DCB	*143*
NAPH	*5.1*
PCE	87.7
TCE	3.6

IA-20	2/11/2020
14DCB	*19.7*
NAPH	<2.0
PCE	3.5
TCE	1.5

IA-18	4/6/2018	2/11/2020
14DCB	*211*	*14.6*
NAPH	*6.4*	<2.0
PCE	41.2	<0.49
TCE	4.7	1.6

IA-19	2/11/2020
14DCB	*15.3*
NAPH	2.9J
PCE	8.1
TCE	1.8

IA-16	4/6/2018	10/31/2018
14DCB	*178*	*16.1*
NAPH	*6.2*	<2.0
PCE	63.5	<0.47
TCE	4.2	1.5

IA-5	10/31/2018	2/11/2020
14DCB	*19.0*	*19.1*
NAPH	<1.9	<2.2
PCE	0.78J	13.1
TCE	1.5	1.5

BASEMENT

MANUFACTURING

OFFICES & CAFETERIA

STORAGE AND SHIPPING DEPARTMENT

MEZZANINE

MAKE-UP AIR UNIT (PRESSURIZATION SYSTEM)

SCALE IN FEET

40' 0 40'

NOTES:

INDOOR AIR CONCENTRATIONS ARE ITALICIZED IF ABOVE THE LARGE COMMERCIAL TARGET INDOOR AIR VAPOR ACTION LEVELS

CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER CUBIC METER

SUB-SLAB VAPOR CONCENTRATIONS ARE BOLD IF ABOVE LARGE COMMERCIAL TARGET VAPOR RISK SCREENING LEVELS

14DCB 1,4-DICHLOROBENZENE
NAPTH NAPHTHALENE
PCE TETRACHLOROETHENE
TCE TRICHLOROETHENE

DESIGNED BY TLS	DATE 2/25/2020
DRAWN BY RJN	PROJECT 2503001.1
APPROVED BY TLS	SHEET NO. 1
CADFILE XREF LMAN	

FIGURE 4
POST REMEDIAL INDOOR AIR ANALYTICAL RESULTS
SCHAEFER BRUSH
1101 SOUTH PRAIRIE AVENUE
WAUKESHA, WI

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Attachment 1

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name		DNR ID # (BRRTS #)	
Schaefer Brush		02-68-563736	
Address	**City**	**State**	**ZIP Code**
1101 South Prairie Avenue	Waukesha	WI	53186

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner			
1101 Gage Inc.			
Address	**City**	**State**	**ZIP Code**
1101 South Prairie Avenue	Waukesha	WI	53186
Contact Person		**Phone Number (include area code)**	
Sheri Reichart			

Person or company that collected samples

Key Engineering Group, Ltd

Sample Results (Results Attached)

Reason for Sampling: ○ Routine ◉ Other (define) vapor mitigation system confirmation sampling

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil? Yes	In Soil? No	In Groundwater? Yes	In Groundwater? No
Gasoline	○	○	○	○
Diesel or Fuel Oil	○	○	○	○
Solvents	◉	○	◉	○
Heavy Metals	○	○	○	○
Pesticides	○	○	○	○
Other: _____	○	○	○	○

This sampling event included sampling of a drinking water well.
○ Yes ◉ No

If yes, the sampled drinking water well had detectable contaminants.
○ Yes ○ No

Contaminants in Vapor	Yes	No
Indoor Air	○	◉
Sub-slab	◉	○
Exterior Soil Gas	○	○

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a $700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name	Contact Person Last Name	First Name
Key Engineering Group, Ltd	Schoen	Toni

Address	City	State	ZIP Code
735 North Water Street, Suite 510	Milwaukee	WI	53202

Phone # (inc. area code)	Email
(414) 225-0594	tschoen@keyengineering.com

Select which agency: ◯ Natural Resources ◯ Agriculture, Trade and Consumer Protection

State of Wisconsin Department of

Contact Person Last Name	First Name	Phone # (inc. area code)
Grittner	Paul	(262) 574-2166

Address	City	State	ZIP Code
141 NW Barstow Street, Suite 180	Waukesha	WI	53188

Email

paul.grittner@wisconsin.gov

Attachment 2

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

February 18, 2020

Toni Schoen
Key Engineering
735 N. Water St.
Milwaukee, WI 53202

RE: Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Dear Toni Schoen:
Enclosed are the analytical results for sample(s) received by the laboratory on February 13, 2020. 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,

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

Enclosures

cc: Valerie Collins, Key Engineering Milwaukee

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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CERTIFICATIONS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10508414001	**IA-14**	Air	02/11/20 15:42	02/13/20 11:15
10508414002	**IA-5**	Air	02/11/20 15:43	02/13/20 11:15
10508414003	**IA-19**	Air	02/11/20 15:44	02/13/20 11:15
10508414004	**IA-20**	Air	02/11/20 15:45	02/13/20 11:15
10508414005	**IA-21**	Air	02/11/20 15:48	02/13/20 11:15
10508414006	**IA-12**	Air	02/11/20 15:49	02/13/20 11:15

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SAMPLE ANALYTE COUNT

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10508414001	**IA-14**	TO-15	MLS	61	PASI-M
10508414002	**IA-5**	TO-15	MLS	61	PASI-M
10508414003	**IA-19**	TO-15	MLS	61	PASI-M
10508414004	**IA-20**	TO-15	MLS	61	PASI-M
10508414005	**IA-21**	TO-15	MLS	61	PASI-M
10508414006	**IA-12**	TO-15	MLS	61	PASI-M

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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10508414001	**IA-14**					
TO-15	Acetone	26.8	ug/m3	4.0	02/16/20 15:53	
TO-15	Benzene	1.1	ug/m3	0.55	02/16/20 15:53	
TO-15	2-Butanone (MEK)	16.2	ug/m3	5.0	02/16/20 15:53	
TO-15	Chloromethane	0.92	ug/m3	0.71	02/16/20 15:53	
TO-15	1,4-Dichlorobenzene	18.4	ug/m3	5.1	02/16/20 15:53	
TO-15	Dichlorodifluoromethane	2.7	ug/m3	1.7	02/16/20 15:53	
TO-15	Ethanol	181	ug/m3	8.0	02/16/20 15:53	SS
TO-15	Ethyl acetate	1.7	ug/m3	1.2	02/16/20 15:53	
TO-15	Ethylbenzene	1.5	ug/m3	1.5	02/16/20 15:53	
TO-15	n-Heptane	1.4J	ug/m3	1.4	02/16/20 15:53	
TO-15	n-Hexane	1.9	ug/m3	1.2	02/16/20 15:53	
TO-15	Methylene Chloride	15.7	ug/m3	5.9	02/16/20 15:53	
TO-15	2-Propanol	4.2	ug/m3	4.2	02/16/20 15:53	
TO-15	Styrene	12.7	ug/m3	1.5	02/16/20 15:53	
TO-15	Tetrachloroethene	16.8	ug/m3	1.2	02/16/20 15:53	
TO-15	Toluene	170	ug/m3	1.3	02/16/20 15:53	
TO-15	Trichloroethene	1.5	ug/m3	0.92	02/16/20 15:53	
TO-15	Trichlorofluoromethane	1.4J	ug/m3	1.9	02/16/20 15:53	
TO-15	1,2,4-Trimethylbenzene	2.0	ug/m3	1.7	02/16/20 15:53	
TO-15	1,3,5-Trimethylbenzene	1.0J	ug/m3	1.7	02/16/20 15:53	
TO-15	m&p-Xylene	4.8	ug/m3	3.0	02/16/20 15:53	
TO-15	o-Xylene	1.2J	ug/m3	1.5	02/16/20 15:53	
10508414002	**IA-5**					
TO-15	Acetone	26.9	ug/m3	4.0	02/16/20 16:52	
TO-15	Benzene	1.2	ug/m3	0.55	02/16/20 16:52	
TO-15	2-Butanone (MEK)	17.6	ug/m3	5.0	02/16/20 16:52	
TO-15	Chloromethane	0.87	ug/m3	0.71	02/16/20 16:52	
TO-15	1,4-Dichlorobenzene	19.1	ug/m3	5.1	02/16/20 16:52	
TO-15	Dichlorodifluoromethane	2.5	ug/m3	1.7	02/16/20 16:52	
TO-15	Ethanol	207	ug/m3	8.0	02/16/20 16:52	SS
TO-15	Ethyl acetate	1.8	ug/m3	1.2	02/16/20 16:52	
TO-15	Ethylbenzene	1.6	ug/m3	1.5	02/16/20 16:52	
TO-15	n-Hexane	2.2	ug/m3	1.2	02/16/20 16:52	
TO-15	Methylene Chloride	15.1	ug/m3	5.9	02/16/20 16:52	
TO-15	2-Propanol	5.0	ug/m3	4.2	02/16/20 16:52	
TO-15	Styrene	20.3	ug/m3	1.5	02/16/20 16:52	
TO-15	Tetrachloroethene	13.1	ug/m3	1.2	02/16/20 16:52	
TO-15	Tetrahydrofuran	0.57J	ug/m3	1.0	02/16/20 16:52	
TO-15	Toluene	177	ug/m3	1.3	02/16/20 16:52	
TO-15	Trichloroethene	1.5	ug/m3	0.92	02/16/20 16:52	
TO-15	Trichlorofluoromethane	1.3J	ug/m3	1.9	02/16/20 16:52	
TO-15	1,2,4-Trimethylbenzene	2.2	ug/m3	1.7	02/16/20 16:52	
TO-15	1,3,5-Trimethylbenzene	1.1J	ug/m3	1.7	02/16/20 16:52	
TO-15	m&p-Xylene	5.2	ug/m3	3.0	02/16/20 16:52	
TO-15	o-Xylene	1.4J	ug/m3	1.5	02/16/20 16:52	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10508414003	**IA-19**					
TO-15	Acetone	48.7	ug/m3	4.1	02/16/20 17:51	
TO-15	Benzene	0.85	ug/m3	0.56	02/16/20 17:51	
TO-15	2-Butanone (MEK)	21.5	ug/m3	5.1	02/16/20 17:51	
TO-15	Chloromethane	1.0	ug/m3	0.72	02/16/20 17:51	
TO-15	1,4-Dichlorobenzene	15.3	ug/m3	5.2	02/16/20 17:51	
TO-15	Dichlorodifluoromethane	2.7	ug/m3	1.7	02/16/20 17:51	
TO-15	Ethanol	336	ug/m3	8.2	02/16/20 17:51	SS
TO-15	Ethyl acetate	2.0	ug/m3	1.3	02/16/20 17:51	
TO-15	Ethylbenzene	1.6	ug/m3	1.5	02/16/20 17:51	
TO-15	n-Hexane	1.8	ug/m3	1.2	02/16/20 17:51	
TO-15	Methylene Chloride	21.3	ug/m3	6.0	02/16/20 17:51	
TO-15	Naphthalene	2.9J	ug/m3	4.5	02/16/20 17:51	
TO-15	2-Propanol	13.8	ug/m3	4.3	02/16/20 17:51	
TO-15	Styrene	5.8	ug/m3	1.5	02/16/20 17:51	
TO-15	Tetrachloroethene	8.1	ug/m3	1.2	02/16/20 17:51	
TO-15	Tetrahydrofuran	1.4	ug/m3	1.0	02/16/20 17:51	
TO-15	Toluene	210	ug/m3	1.3	02/16/20 17:51	
TO-15	Trichloroethene	1.8	ug/m3	0.93	02/16/20 17:51	
TO-15	Trichlorofluoromethane	1.3J	ug/m3	1.9	02/16/20 17:51	
TO-15	1,2,4-Trimethylbenzene	2.0	ug/m3	1.7	02/16/20 17:51	
TO-15	1,3,5-Trimethylbenzene	1.2J	ug/m3	1.7	02/16/20 17:51	
TO-15	m&p-Xylene	4.8	ug/m3	3.0	02/16/20 17:51	
TO-15	o-Xylene	1.2J	ug/m3	1.5	02/16/20 17:51	
10508414004	**IA-20**					
TO-15	Acetone	24.6	ug/m3	4.2	02/16/20 18:21	
TO-15	Benzene	0.61	ug/m3	0.57	02/16/20 18:21	
TO-15	2-Butanone (MEK)	16.0	ug/m3	5.2	02/16/20 18:21	
TO-15	Chloromethane	0.82	ug/m3	0.74	02/16/20 18:21	
TO-15	1,4-Dichlorobenzene	19.7	ug/m3	5.4	02/16/20 18:21	
TO-15	Dichlorodifluoromethane	2.6	ug/m3	1.8	02/16/20 18:21	
TO-15	Ethanol	206	ug/m3	8.4	02/16/20 18:21	SS
TO-15	Ethyl acetate	1.2J	ug/m3	1.3	02/16/20 18:21	
TO-15	Ethylbenzene	1.6	ug/m3	1.5	02/16/20 18:21	
TO-15	n-Heptane	0.73J	ug/m3	1.5	02/16/20 18:21	
TO-15	n-Hexane	1.1J	ug/m3	1.3	02/16/20 18:21	
TO-15	Methylene Chloride	17.0	ug/m3	6.2	02/16/20 18:21	
TO-15	2-Propanol	3.1J	ug/m3	4.4	02/16/20 18:21	
TO-15	Styrene	1.4J	ug/m3	1.5	02/16/20 18:21	
TO-15	Tetrachloroethene	3.5	ug/m3	1.2	02/16/20 18:21	
TO-15	Toluene	159	ug/m3	1.3	02/16/20 18:21	
TO-15	Trichloroethene	1.5	ug/m3	0.96	02/16/20 18:21	
TO-15	Trichlorofluoromethane	1.3J	ug/m3	2.0	02/16/20 18:21	
TO-15	1,2,4-Trimethylbenzene	2.0	ug/m3	1.7	02/16/20 18:21	
TO-15	1,3,5-Trimethylbenzene	0.90J	ug/m3	1.7	02/16/20 18:21	
TO-15	m&p-Xylene	4.9	ug/m3	3.1	02/16/20 18:21	
TO-15	o-Xylene	1.3J	ug/m3	1.5	02/16/20 18:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10508414005	**IA-21**					
TO-15	Acetone	26.1	ug/m3	3.9	02/16/20 18:50	
TO-15	Benzene	0.66	ug/m3	0.52	02/16/20 18:50	
TO-15	2-Butanone (MEK)	18.6	ug/m3	4.8	02/16/20 18:50	
TO-15	Chloromethane	0.85	ug/m3	0.68	02/16/20 18:50	
TO-15	1,4-Dichlorobenzene	17.6	ug/m3	4.9	02/16/20 18:50	
TO-15	Dichlorodifluoromethane	2.4	ug/m3	1.6	02/16/20 18:50	
TO-15	Ethanol	216	ug/m3	7.7	02/16/20 18:50	SS
TO-15	Ethylbenzene	1.8	ug/m3	1.4	02/16/20 18:50	
TO-15	n-Heptane	0.75J	ug/m3	1.3	02/16/20 18:50	
TO-15	Methylene Chloride	15.9	ug/m3	5.7	02/16/20 18:50	
TO-15	2-Propanol	3.7J	ug/m3	4.0	02/16/20 18:50	
TO-15	Styrene	1.9	ug/m3	1.4	02/16/20 18:50	
TO-15	Tetrachloroethene	4.3	ug/m3	1.1	02/16/20 18:50	
TO-15	Toluene	161	ug/m3	1.2	02/16/20 18:50	
TO-15	Trichloroethene	1.4	ug/m3	0.88	02/16/20 18:50	
TO-15	Trichlorofluoromethane	2.1	ug/m3	1.8	02/16/20 18:50	
TO-15	1,2,4-Trimethylbenzene	2.1	ug/m3	1.6	02/16/20 18:50	
TO-15	1,3,5-Trimethylbenzene	0.92J	ug/m3	1.6	02/16/20 18:50	
TO-15	m&p-Xylene	5.5	ug/m3	2.8	02/16/20 18:50	
TO-15	o-Xylene	1.6	ug/m3	1.4	02/16/20 18:50	
10508414006	**IA-12**					
TO-15	Acetone	29.9	ug/m3	4.0	02/16/20 19:20	
TO-15	Benzene	0.68	ug/m3	0.55	02/16/20 19:20	
TO-15	2-Butanone (MEK)	21.1	ug/m3	5.0	02/16/20 19:20	
TO-15	Chloromethane	0.85	ug/m3	0.71	02/16/20 19:20	
TO-15	1,4-Dichlorobenzene	18.5	ug/m3	5.1	02/16/20 19:20	
TO-15	Dichlorodifluoromethane	2.6	ug/m3	1.7	02/16/20 19:20	
TO-15	Ethanol	256	ug/m3	8.0	02/16/20 19:20	SS
TO-15	Ethylbenzene	1.8	ug/m3	1.5	02/16/20 19:20	
TO-15	Methylene Chloride	17.1	ug/m3	5.9	02/16/20 19:20	
TO-15	2-Propanol	3.8J	ug/m3	4.2	02/16/20 19:20	
TO-15	Styrene	1.8	ug/m3	1.5	02/16/20 19:20	
TO-15	Tetrachloroethene	4.0	ug/m3	1.2	02/16/20 19:20	
TO-15	Toluene	174	ug/m3	1.3	02/16/20 19:20	
TO-15	Trichloroethene	1.6	ug/m3	0.92	02/16/20 19:20	
TO-15	Trichlorofluoromethane	1.5J	ug/m3	1.9	02/16/20 19:20	
TO-15	1,2,4-Trimethylbenzene	2.1	ug/m3	1.7	02/16/20 19:20	
TO-15	1,3,5-Trimethylbenzene	1.0J	ug/m3	1.7	02/16/20 19:20	
TO-15	m&p-Xylene	5.3	ug/m3	3.0	02/16/20 19:20	
TO-15	o-Xylene	1.4J	ug/m3	1.5	02/16/20 19:20	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Sample: IA-14 **Lab ID: 10508414001** Collected: 02/11/20 15:42 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**26.8**	ug/m3	4.0	2.0	1.68		02/16/20 15:53	67-64-1	
Benzene	**1.1**	ug/m3	0.55	0.26	1.68		02/16/20 15:53	71-43-2	
Benzyl chloride	**<2.0**	ug/m3	4.4	2.0	1.68		02/16/20 15:53	100-44-7	
Bromodichloromethane	**<0.61**	ug/m3	2.3	0.61	1.68		02/16/20 15:53	75-27-4	
Bromoform	**<2.4**	ug/m3	8.8	2.4	1.68		02/16/20 15:53	75-25-2	
Bromomethane	**<0.38**	ug/m3	1.3	0.38	1.68		02/16/20 15:53	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.76	0.22	1.68		02/16/20 15:53	106-99-0	
2-Butanone (MEK)	**16.2**	ug/m3	5.0	0.62	1.68		02/16/20 15:53	78-93-3	
Carbon disulfide	**<0.37**	ug/m3	1.1	0.37	1.68		02/16/20 15:53	75-15-0	
Carbon tetrachloride	**<0.72**	ug/m3	2.2	0.72	1.68		02/16/20 15:53	56-23-5	
Chlorobenzene	**<0.46**	ug/m3	1.6	0.46	1.68		02/16/20 15:53	108-90-7	
Chloroethane	**<0.44**	ug/m3	0.90	0.44	1.68		02/16/20 15:53	75-00-3	
Chloroform	**<0.33**	ug/m3	0.83	0.33	1.68		02/16/20 15:53	67-66-3	
Chloromethane	**0.92**	ug/m3	0.71	0.26	1.68		02/16/20 15:53	74-87-3	
Cyclohexane	**<0.59**	ug/m3	2.9	0.59	1.68		02/16/20 15:53	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	2.9	1.2	1.68		02/16/20 15:53	124-48-1	
1,2-Dibromoethane (EDB)	**<0.61**	ug/m3	1.3	0.61	1.68		02/16/20 15:53	106-93-4	
1,2-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		02/16/20 15:53	95-50-1	
1,3-Dichlorobenzene	**<0.98**	ug/m3	2.0	0.98	1.68		02/16/20 15:53	541-73-1	
1,4-Dichlorobenzene	**18.4**	ug/m3	5.1	1.7	1.68		02/16/20 15:53	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	1.7	0.49	1.68		02/16/20 15:53	75-71-8	
1,1-Dichloroethane	**<0.38**	ug/m3	1.4	0.38	1.68		02/16/20 15:53	75-34-3	
1,2-Dichloroethane	**<0.25**	ug/m3	0.69	0.25	1.68		02/16/20 15:53	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.4	0.46	1.68		02/16/20 15:53	75-35-4	
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.4	0.37	1.68		02/16/20 15:53	156-59-2	
trans-1,2-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.68		02/16/20 15:53	156-60-5	
1,2-Dichloropropane	**<0.39**	ug/m3	1.6	0.39	1.68		02/16/20 15:53	78-87-5	
cis-1,3-Dichloropropene	**<0.51**	ug/m3	1.6	0.51	1.68		02/16/20 15:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.74**	ug/m3	1.6	0.74	1.68		02/16/20 15:53	10061-02-6	
Dichlorotetrafluoroethane	**<0.73**	ug/m3	2.4	0.73	1.68		02/16/20 15:53	76-14-2	
Ethanol	**181**	ug/m3	8.0	1.4	1.68		02/16/20 15:53	64-17-5	SS
Ethyl acetate	**1.7**	ug/m3	1.2	0.32	1.68		02/16/20 15:53	141-78-6	
Ethylbenzene	**1.5**	ug/m3	1.5	0.51	1.68		02/16/20 15:53	100-41-4	
4-Ethyltoluene	**<0.96**	ug/m3	4.2	0.96	1.68		02/16/20 15:53	622-96-8	
n-Heptane	**1.4J**	ug/m3	1.4	0.64	1.68		02/16/20 15:53	142-82-5	
Hexachloro-1,3-butadiene	**<3.3**	ug/m3	9.1	3.3	1.68		02/16/20 15:53	87-68-3	
n-Hexane	**1.9**	ug/m3	1.2	0.52	1.68		02/16/20 15:53	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.0	1.3	1.68		02/16/20 15:53	591-78-6	
Methylene Chloride	**15.7**	ug/m3	5.9	2.0	1.68		02/16/20 15:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.87**	ug/m3	7.0	0.87	1.68		02/16/20 15:53	108-10-1	
Methyl-tert-butyl ether	**<1.1**	ug/m3	6.1	1.1	1.68		02/16/20 15:53	1634-04-4	
Naphthalene	**<2.2**	ug/m3	4.5	2.2	1.68		02/16/20 15:53	91-20-3	
2-Propanol	**4.2**	ug/m3	4.2	1.2	1.68		02/16/20 15:53	67-63-0	
Propylene	**<0.24**	ug/m3	0.59	0.24	1.68		02/16/20 15:53	115-07-1	
Styrene	**12.7**	ug/m3	1.5	0.58	1.68		02/16/20 15:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.52**	ug/m3	1.2	0.52	1.68		02/16/20 15:53	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Sample: IA-14 **Lab ID: 10508414001** Collected: 02/11/20 15:42 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**16.8**	ug/m3	1.2	0.53	1.68		02/16/20 15:53	127-18-4	
Tetrahydrofuran	**<0.44**	ug/m3	1.0	0.44	1.68		02/16/20 15:53	109-99-9	
Toluene	**170**	ug/m3	1.3	0.59	1.68		02/16/20 15:53	108-88-3	
1,2,4-Trichlorobenzene	**<6.2**	ug/m3	12.7	6.2	1.68		02/16/20 15:53	120-82-1	
1,1,1-Trichloroethane	**<0.52**	ug/m3	1.9	0.52	1.68		02/16/20 15:53	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.93	0.41	1.68		02/16/20 15:53	79-00-5	
Trichloroethene	**1.5**	ug/m3	0.92	0.43	1.68		02/16/20 15:53	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	1.9	0.61	1.68		02/16/20 15:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.95**	ug/m3	2.6	0.95	1.68		02/16/20 15:53	76-13-1	
1,2,4-Trimethylbenzene	**2.0**	ug/m3	1.7	0.76	1.68		02/16/20 15:53	95-63-6	
1,3,5-Trimethylbenzene	**1.0J**	ug/m3	1.7	0.67	1.68		02/16/20 15:53	108-67-8	
Vinyl acetate	**<0.45**	ug/m3	1.2	0.45	1.68		02/16/20 15:53	108-05-4	
Vinyl chloride	**<0.21**	ug/m3	0.44	0.21	1.68		02/16/20 15:53	75-01-4	
m&p-Xylene	**4.8**	ug/m3	3.0	1.2	1.68		02/16/20 15:53	179601-23-1	
o-Xylene	**1.2J**	ug/m3	1.5	0.58	1.68		02/16/20 15:53	95-47-6	

Sample: IA-5 **Lab ID: 10508414002** Collected: 02/11/20 15:43 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**26.9**	ug/m3	4.0	2.0	1.68		02/16/20 16:52	67-64-1	
Benzene	**1.2**	ug/m3	0.55	0.26	1.68		02/16/20 16:52	71-43-2	
Benzyl chloride	**<2.0**	ug/m3	4.4	2.0	1.68		02/16/20 16:52	100-44-7	
Bromodichloromethane	**<0.61**	ug/m3	2.3	0.61	1.68		02/16/20 16:52	75-27-4	
Bromoform	**<2.4**	ug/m3	8.8	2.4	1.68		02/16/20 16:52	75-25-2	
Bromomethane	**<0.38**	ug/m3	1.3	0.38	1.68		02/16/20 16:52	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.76	0.22	1.68		02/16/20 16:52	106-99-0	
2-Butanone (MEK)	**17.6**	ug/m3	5.0	0.62	1.68		02/16/20 16:52	78-93-3	
Carbon disulfide	**<0.37**	ug/m3	1.1	0.37	1.68		02/16/20 16:52	75-15-0	
Carbon tetrachloride	**<0.72**	ug/m3	2.2	0.72	1.68		02/16/20 16:52	56-23-5	
Chlorobenzene	**<0.46**	ug/m3	1.6	0.46	1.68		02/16/20 16:52	108-90-7	
Chloroethane	**<0.44**	ug/m3	0.90	0.44	1.68		02/16/20 16:52	75-00-3	
Chloroform	**<0.33**	ug/m3	0.83	0.33	1.68		02/16/20 16:52	67-66-3	
Chloromethane	**0.87**	ug/m3	0.71	0.26	1.68		02/16/20 16:52	74-87-3	
Cyclohexane	**<0.59**	ug/m3	2.9	0.59	1.68		02/16/20 16:52	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	2.9	1.2	1.68		02/16/20 16:52	124-48-1	
1,2-Dibromoethane (EDB)	**<0.61**	ug/m3	1.3	0.61	1.68		02/16/20 16:52	106-93-4	
1,2-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		02/16/20 16:52	95-50-1	
1,3-Dichlorobenzene	**<0.98**	ug/m3	2.0	0.98	1.68		02/16/20 16:52	541-73-1	
1,4-Dichlorobenzene	**19.1**	ug/m3	5.1	1.7	1.68		02/16/20 16:52	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.7	0.49	1.68		02/16/20 16:52	75-71-8	
1,1-Dichloroethane	**<0.38**	ug/m3	1.4	0.38	1.68		02/16/20 16:52	75-34-3	
1,2-Dichloroethane	**<0.25**	ug/m3	0.69	0.25	1.68		02/16/20 16:52	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Sample: IA-5 **Lab ID: 10508414002** Collected: 02/11/20 15:43 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.46**	ug/m3	1.4	0.46	1.68		02/16/20 16:52	75-35-4	
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.4	0.37	1.68		02/16/20 16:52	156-59-2	
trans-1,2-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.68		02/16/20 16:52	156-60-5	
1,2-Dichloropropane	**<0.39**	ug/m3	1.6	0.39	1.68		02/16/20 16:52	78-87-5	
cis-1,3-Dichloropropene	**<0.51**	ug/m3	1.6	0.51	1.68		02/16/20 16:52	10061-01-5	
trans-1,3-Dichloropropene	**<0.74**	ug/m3	1.6	0.74	1.68		02/16/20 16:52	10061-02-6	
Dichlorotetrafluoroethane	**<0.73**	ug/m3	2.4	0.73	1.68		02/16/20 16:52	76-14-2	
Ethanol	**207**	ug/m3	8.0	1.4	1.68		02/16/20 16:52	64-17-5	SS
Ethyl acetate	**1.8**	ug/m3	1.2	0.32	1.68		02/16/20 16:52	141-78-6	
Ethylbenzene	**1.6**	ug/m3	1.5	0.51	1.68		02/16/20 16:52	100-41-4	
4-Ethyltoluene	**<0.96**	ug/m3	4.2	0.96	1.68		02/16/20 16:52	622-96-8	
n-Heptane	**<0.64**	ug/m3	1.4	0.64	1.68		02/16/20 16:52	142-82-5	
Hexachloro-1,3-butadiene	**<3.3**	ug/m3	9.1	3.3	1.68		02/16/20 16:52	87-68-3	
n-Hexane	**2.2**	ug/m3	1.2	0.52	1.68		02/16/20 16:52	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.0	1.3	1.68		02/16/20 16:52	591-78-6	
Methylene Chloride	**15.1**	ug/m3	5.9	2.0	1.68		02/16/20 16:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.87**	ug/m3	7.0	0.87	1.68		02/16/20 16:52	108-10-1	
Methyl-tert-butyl ether	**<1.1**	ug/m3	6.1	1.1	1.68		02/16/20 16:52	1634-04-4	
Naphthalene	**<2.2**	ug/m3	4.5	2.2	1.68		02/16/20 16:52	91-20-3	
2-Propanol	**5.0**	ug/m3	4.2	1.2	1.68		02/16/20 16:52	67-63-0	
Propylene	**<0.24**	ug/m3	0.59	0.24	1.68		02/16/20 16:52	115-07-1	
Styrene	**20.3**	ug/m3	1.5	0.58	1.68		02/16/20 16:52	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.52**	ug/m3	1.2	0.52	1.68		02/16/20 16:52	79-34-5	
Tetrachloroethene	**13.1**	ug/m3	1.2	0.53	1.68		02/16/20 16:52	127-18-4	
Tetrahydrofuran	**0.57J**	ug/m3	1.0	0.44	1.68		02/16/20 16:52	109-99-9	
Toluene	**177**	ug/m3	1.3	0.59	1.68		02/16/20 16:52	108-88-3	
1,2,4-Trichlorobenzene	**<6.2**	ug/m3	12.7	6.2	1.68		02/16/20 16:52	120-82-1	
1,1,1-Trichloroethane	**<0.52**	ug/m3	1.9	0.52	1.68		02/16/20 16:52	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.93	0.41	1.68		02/16/20 16:52	79-00-5	
Trichloroethene	**1.5**	ug/m3	0.92	0.43	1.68		02/16/20 16:52	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	1.9	0.61	1.68		02/16/20 16:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.95**	ug/m3	2.6	0.95	1.68		02/16/20 16:52	76-13-1	
1,2,4-Trimethylbenzene	**2.2**	ug/m3	1.7	0.76	1.68		02/16/20 16:52	95-63-6	
1,3,5-Trimethylbenzene	**1.1J**	ug/m3	1.7	0.67	1.68		02/16/20 16:52	108-67-8	
Vinyl acetate	**<0.45**	ug/m3	1.2	0.45	1.68		02/16/20 16:52	108-05-4	
Vinyl chloride	**<0.21**	ug/m3	0.44	0.21	1.68		02/16/20 16:52	75-01-4	
m&p-Xylene	**5.2**	ug/m3	3.0	1.2	1.68		02/16/20 16:52	179601-23-1	
o-Xylene	**1.4J**	ug/m3	1.5	0.58	1.68		02/16/20 16:52	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Sample: IA-19 **Lab ID: 10508414003** Collected: 02/11/20 15:44 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**48.7**	ug/m3	4.1	2.1	1.71		02/16/20 17:51	67-64-1	
Benzene	**0.85**	ug/m3	0.56	0.26	1.71		02/16/20 17:51	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.5	2.1	1.71		02/16/20 17:51	100-44-7	
Bromodichloromethane	**<0.63**	ug/m3	2.3	0.63	1.71		02/16/20 17:51	75-27-4	
Bromoform	**<2.4**	ug/m3	9.0	2.4	1.71		02/16/20 17:51	75-25-2	
Bromomethane	**<0.39**	ug/m3	1.3	0.39	1.71		02/16/20 17:51	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.77	0.22	1.71		02/16/20 17:51	106-99-0	
2-Butanone (MEK)	**21.5**	ug/m3	5.1	0.63	1.71		02/16/20 17:51	78-93-3	
Carbon disulfide	**<0.37**	ug/m3	1.1	0.37	1.71		02/16/20 17:51	75-15-0	
Carbon tetrachloride	**<0.73**	ug/m3	2.2	0.73	1.71		02/16/20 17:51	56-23-5	
Chlorobenzene	**<0.47**	ug/m3	1.6	0.47	1.71		02/16/20 17:51	108-90-7	
Chloroethane	**<0.44**	ug/m3	0.92	0.44	1.71		02/16/20 17:51	75-00-3	
Chloroform	**<0.34**	ug/m3	0.85	0.34	1.71		02/16/20 17:51	67-66-3	
Chloromethane	**1.0**	ug/m3	0.72	0.27	1.71		02/16/20 17:51	74-87-3	
Cyclohexane	**<0.60**	ug/m3	3.0	0.60	1.71		02/16/20 17:51	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	3.0	1.2	1.71		02/16/20 17:51	124-48-1	
1,2-Dibromoethane (EDB)	**<0.63**	ug/m3	1.3	0.63	1.71		02/16/20 17:51	106-93-4	
1,2-Dichlorobenzene	**<0.85**	ug/m3	2.1	0.85	1.71		02/16/20 17:51	95-50-1	
1,3-Dichlorobenzene	**<0.99**	ug/m3	2.1	0.99	1.71		02/16/20 17:51	541-73-1	
1,4-Dichlorobenzene	**15.3**	ug/m3	5.2	1.7	1.71		02/16/20 17:51	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	1.7	0.50	1.71		02/16/20 17:51	75-71-8	
1,1-Dichloroethane	**<0.38**	ug/m3	1.4	0.38	1.71		02/16/20 17:51	75-34-3	
1,2-Dichloroethane	**<0.26**	ug/m3	0.70	0.26	1.71		02/16/20 17:51	107-06-2	
1,1-Dichloroethene	**<0.47**	ug/m3	1.4	0.47	1.71		02/16/20 17:51	75-35-4	
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.4	0.37	1.71		02/16/20 17:51	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/m3	1.4	0.49	1.71		02/16/20 17:51	156-60-5	
1,2-Dichloropropane	**<0.39**	ug/m3	1.6	0.39	1.71		02/16/20 17:51	78-87-5	
cis-1,3-Dichloropropene	**<0.52**	ug/m3	1.6	0.52	1.71		02/16/20 17:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.75**	ug/m3	1.6	0.75	1.71		02/16/20 17:51	10061-02-6	
Dichlorotetrafluoroethane	**<0.75**	ug/m3	2.4	0.75	1.71		02/16/20 17:51	76-14-2	
Ethanol	**336**	ug/m3	8.2	1.4	1.71		02/16/20 17:51	64-17-5	SS
Ethyl acetate	**2.0**	ug/m3	1.3	0.32	1.71		02/16/20 17:51	141-78-6	
Ethylbenzene	**1.6**	ug/m3	1.5	0.52	1.71		02/16/20 17:51	100-41-4	
4-Ethyltoluene	**<0.97**	ug/m3	4.3	0.97	1.71		02/16/20 17:51	622-96-8	
n-Heptane	**<0.65**	ug/m3	1.4	0.65	1.71		02/16/20 17:51	142-82-5	
Hexachloro-1,3-butadiene	**<3.4**	ug/m3	9.3	3.4	1.71		02/16/20 17:51	87-68-3	
n-Hexane	**1.8**	ug/m3	1.2	0.53	1.71		02/16/20 17:51	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.1	1.3	1.71		02/16/20 17:51	591-78-6	
Methylene Chloride	**21.3**	ug/m3	6.0	2.1	1.71		02/16/20 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.89**	ug/m3	7.1	0.89	1.71		02/16/20 17:51	108-10-1	
Methyl-tert-butyl ether	**<1.1**	ug/m3	6.3	1.1	1.71		02/16/20 17:51	1634-04-4	
Naphthalene	**2.9J**	ug/m3	4.5	2.2	1.71		02/16/20 17:51	91-20-3	
2-Propanol	**13.8**	ug/m3	4.3	1.2	1.71		02/16/20 17:51	67-63-0	
Propylene	**<0.24**	ug/m3	0.60	0.24	1.71		02/16/20 17:51	115-07-1	
Styrene	**5.8**	ug/m3	1.5	0.59	1.71		02/16/20 17:51	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.53**	ug/m3	1.2	0.53	1.71		02/16/20 17:51	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Sample: IA-19 **Lab ID: 10508414003** Collected: 02/11/20 15:44 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**8.1**	ug/m3	1.2	0.54	1.71		02/16/20 17:51	127-18-4	
Tetrahydrofuran	**1.4**	ug/m3	1.0	0.45	1.71		02/16/20 17:51	109-99-9	
Toluene	**210**	ug/m3	1.3	0.60	1.71		02/16/20 17:51	108-88-3	
1,2,4-Trichlorobenzene	**<6.4**	ug/m3	12.9	6.4	1.71		02/16/20 17:51	120-82-1	
1,1,1-Trichloroethane	**<0.53**	ug/m3	1.9	0.53	1.71		02/16/20 17:51	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.95	0.41	1.71		02/16/20 17:51	79-00-5	
Trichloroethene	**1.8**	ug/m3	0.93	0.43	1.71		02/16/20 17:51	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	1.9	0.63	1.71		02/16/20 17:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.96**	ug/m3	2.7	0.96	1.71		02/16/20 17:51	76-13-1	
1,2,4-Trimethylbenzene	**2.0**	ug/m3	1.7	0.77	1.71		02/16/20 17:51	95-63-6	
1,3,5-Trimethylbenzene	**1.2J**	ug/m3	1.7	0.68	1.71		02/16/20 17:51	108-67-8	
Vinyl acetate	**<0.46**	ug/m3	1.2	0.46	1.71		02/16/20 17:51	108-05-4	
Vinyl chloride	**<0.22**	ug/m3	0.44	0.22	1.71		02/16/20 17:51	75-01-4	
m&p-Xylene	**4.8**	ug/m3	3.0	1.2	1.71		02/16/20 17:51	179601-23-1	
o-Xylene	**1.2J**	ug/m3	1.5	0.59	1.71		02/16/20 17:51	95-47-6	

Sample: IA-20 **Lab ID: 10508414004** Collected: 02/11/20 15:45 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**24.6**	ug/m3	4.2	2.1	1.75		02/16/20 18:21	67-64-1	
Benzene	**0.61**	ug/m3	0.57	0.27	1.75		02/16/20 18:21	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.6	2.1	1.75		02/16/20 18:21	100-44-7	
Bromodichloromethane	**<0.64**	ug/m3	2.4	0.64	1.75		02/16/20 18:21	75-27-4	
Bromoform	**<2.5**	ug/m3	9.2	2.5	1.75		02/16/20 18:21	75-25-2	
Bromomethane	**<0.40**	ug/m3	1.4	0.40	1.75		02/16/20 18:21	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.79	0.22	1.75		02/16/20 18:21	106-99-0	
2-Butanone (MEK)	**16.0**	ug/m3	5.2	0.65	1.75		02/16/20 18:21	78-93-3	
Carbon disulfide	**<0.38**	ug/m3	1.1	0.38	1.75		02/16/20 18:21	75-15-0	
Carbon tetrachloride	**<0.75**	ug/m3	2.2	0.75	1.75		02/16/20 18:21	56-23-5	
Chlorobenzene	**<0.48**	ug/m3	1.6	0.48	1.75		02/16/20 18:21	108-90-7	
Chloroethane	**<0.46**	ug/m3	0.94	0.46	1.75		02/16/20 18:21	75-00-3	
Chloroform	**<0.34**	ug/m3	0.87	0.34	1.75		02/16/20 18:21	67-66-3	
Chloromethane	**0.82**	ug/m3	0.74	0.27	1.75		02/16/20 18:21	74-87-3	
Cyclohexane	**<0.62**	ug/m3	3.1	0.62	1.75		02/16/20 18:21	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.0	1.3	1.75		02/16/20 18:21	124-48-1	
1,2-Dibromoethane (EDB)	**<0.64**	ug/m3	1.4	0.64	1.75		02/16/20 18:21	106-93-4	
1,2-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		02/16/20 18:21	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.1	1.0	1.75		02/16/20 18:21	541-73-1	
1,4-Dichlorobenzene	**19.7**	ug/m3	5.4	1.8	1.75		02/16/20 18:21	106-46-7	
Dichlorodifluoromethane	**2.6**	ug/m3	1.8	0.51	1.75		02/16/20 18:21	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/m3	1.4	0.39	1.75		02/16/20 18:21	75-34-3	
1,2-Dichloroethane	**<0.26**	ug/m3	0.72	0.26	1.75		02/16/20 18:21	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Sample: IA-20 **Lab ID: 10508414004** Collected: 02/11/20 15:45 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.75		02/16/20 18:21	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.4	0.38	1.75		02/16/20 18:21	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/m3	1.4	0.50	1.75		02/16/20 18:21	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.6	0.40	1.75		02/16/20 18:21	78-87-5	
cis-1,3-Dichloropropene	**<0.53**	ug/m3	1.6	0.53	1.75		02/16/20 18:21	10061-01-5	
trans-1,3-Dichloropropene	**<0.77**	ug/m3	1.6	0.77	1.75		02/16/20 18:21	10061-02-6	
Dichlorotetrafluoroethane	**<0.76**	ug/m3	2.5	0.76	1.75		02/16/20 18:21	76-14-2	
Ethanol	**206**	ug/m3	8.4	1.4	1.75		02/16/20 18:21	64-17-5	SS
Ethyl acetate	**1.2J**	ug/m3	1.3	0.33	1.75		02/16/20 18:21	141-78-6	
Ethylbenzene	**1.6**	ug/m3	1.5	0.53	1.75		02/16/20 18:21	100-41-4	
4-Ethyltoluene	**<1.0**	ug/m3	4.4	1.0	1.75		02/16/20 18:21	622-96-8	
n-Heptane	**0.73J**	ug/m3	1.5	0.66	1.75		02/16/20 18:21	142-82-5	
Hexachloro-1,3-butadiene	**<3.4**	ug/m3	9.5	3.4	1.75		02/16/20 18:21	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.3	0.54	1.75		02/16/20 18:21	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.3	1.3	1.75		02/16/20 18:21	591-78-6	
Methylene Chloride	**17.0**	ug/m3	6.2	2.1	1.75		02/16/20 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.91**	ug/m3	7.3	0.91	1.75		02/16/20 18:21	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.4	1.2	1.75		02/16/20 18:21	1634-04-4	
Naphthalene	**<2.3**	ug/m3	4.7	2.3	1.75		02/16/20 18:21	91-20-3	
2-Propanol	**3.1J**	ug/m3	4.4	1.2	1.75		02/16/20 18:21	67-63-0	
Propylene	**<0.24**	ug/m3	0.61	0.24	1.75		02/16/20 18:21	115-07-1	
Styrene	**1.4J**	ug/m3	1.5	0.60	1.75		02/16/20 18:21	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.54**	ug/m3	1.2	0.54	1.75		02/16/20 18:21	79-34-5	
Tetrachloroethene	**3.5**	ug/m3	1.2	0.55	1.75		02/16/20 18:21	127-18-4	
Tetrahydrofuran	**<0.46**	ug/m3	1.0	0.46	1.75		02/16/20 18:21	109-99-9	
Toluene	**159**	ug/m3	1.3	0.61	1.75		02/16/20 18:21	108-88-3	
1,2,4-Trichlorobenzene	**<6.5**	ug/m3	13.2	6.5	1.75		02/16/20 18:21	120-82-1	
1,1,1-Trichloroethane	**<0.54**	ug/m3	1.9	0.54	1.75		02/16/20 18:21	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/m3	0.97	0.42	1.75		02/16/20 18:21	79-00-5	
Trichloroethene	**1.5**	ug/m3	0.96	0.44	1.75		02/16/20 18:21	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.0	0.64	1.75		02/16/20 18:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.99**	ug/m3	2.7	0.99	1.75		02/16/20 18:21	76-13-1	
1,2,4-Trimethylbenzene	**2.0**	ug/m3	1.7	0.79	1.75		02/16/20 18:21	95-63-6	
1,3,5-Trimethylbenzene	**0.90J**	ug/m3	1.7	0.70	1.75		02/16/20 18:21	108-67-8	
Vinyl acetate	**<0.47**	ug/m3	1.3	0.47	1.75		02/16/20 18:21	108-05-4	
Vinyl chloride	**<0.22**	ug/m3	0.46	0.22	1.75		02/16/20 18:21	75-01-4	
m&p-Xylene	**4.9**	ug/m3	3.1	1.2	1.75		02/16/20 18:21	179601-23-1	
o-Xylene	**1.3J**	ug/m3	1.5	0.60	1.75		02/16/20 18:21	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Sample: IA-21 **Lab ID: 10508414005** Collected: 02/11/20 15:48 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**26.1**	ug/m3	3.9	1.9	1.61		02/16/20 18:50	67-64-1	
Benzene	**0.66**	ug/m3	0.52	0.25	1.61		02/16/20 18:50	71-43-2	
Benzyl chloride	**<1.9**	ug/m3	4.2	1.9	1.61		02/16/20 18:50	100-44-7	
Bromodichloromethane	**<0.59**	ug/m3	2.2	0.59	1.61		02/16/20 18:50	75-27-4	
Bromoform	**<2.3**	ug/m3	8.5	2.3	1.61		02/16/20 18:50	75-25-2	
Bromomethane	**<0.37**	ug/m3	1.3	0.37	1.61		02/16/20 18:50	74-83-9	
1,3-Butadiene	**<0.21**	ug/m3	0.72	0.21	1.61		02/16/20 18:50	106-99-0	
2-Butanone (MEK)	**18.6**	ug/m3	4.8	0.59	1.61		02/16/20 18:50	78-93-3	
Carbon disulfide	**<0.35**	ug/m3	1.0	0.35	1.61		02/16/20 18:50	75-15-0	
Carbon tetrachloride	**<0.69**	ug/m3	2.1	0.69	1.61		02/16/20 18:50	56-23-5	
Chlorobenzene	**<0.44**	ug/m3	1.5	0.44	1.61		02/16/20 18:50	108-90-7	
Chloroethane	**<0.42**	ug/m3	0.86	0.42	1.61		02/16/20 18:50	75-00-3	
Chloroform	**<0.32**	ug/m3	0.80	0.32	1.61		02/16/20 18:50	67-66-3	
Chloromethane	**0.85**	ug/m3	0.68	0.25	1.61		02/16/20 18:50	74-87-3	
Cyclohexane	**<0.57**	ug/m3	2.8	0.57	1.61		02/16/20 18:50	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	2.8	1.2	1.61		02/16/20 18:50	124-48-1	
1,2-Dibromoethane (EDB)	**<0.59**	ug/m3	1.3	0.59	1.61		02/16/20 18:50	106-93-4	
1,2-Dichlorobenzene	**<0.80**	ug/m3	2.0	0.80	1.61		02/16/20 18:50	95-50-1	
1,3-Dichlorobenzene	**<0.94**	ug/m3	2.0	0.94	1.61		02/16/20 18:50	541-73-1	
1,4-Dichlorobenzene	**17.6**	ug/m3	4.9	1.6	1.61		02/16/20 18:50	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.6	0.47	1.61		02/16/20 18:50	75-71-8	
1,1-Dichloroethane	**<0.36**	ug/m3	1.3	0.36	1.61		02/16/20 18:50	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/m3	0.66	0.24	1.61		02/16/20 18:50	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.3	0.44	1.61		02/16/20 18:50	75-35-4	
cis-1,2-Dichloroethene	**<0.35**	ug/m3	1.3	0.35	1.61		02/16/20 18:50	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/m3	1.3	0.46	1.61		02/16/20 18:50	156-60-5	
1,2-Dichloropropane	**<0.37**	ug/m3	1.5	0.37	1.61		02/16/20 18:50	78-87-5	
cis-1,3-Dichloropropene	**<0.49**	ug/m3	1.5	0.49	1.61		02/16/20 18:50	10061-01-5	
trans-1,3-Dichloropropene	**<0.71**	ug/m3	1.5	0.71	1.61		02/16/20 18:50	10061-02-6	
Dichlorotetrafluoroethane	**<0.70**	ug/m3	2.3	0.70	1.61		02/16/20 18:50	76-14-2	
Ethanol	**216**	ug/m3	7.7	1.3	1.61		02/16/20 18:50	64-17-5	SS
Ethyl acetate	**<0.31**	ug/m3	1.2	0.31	1.61		02/16/20 18:50	141-78-6	
Ethylbenzene	**1.8**	ug/m3	1.4	0.49	1.61		02/16/20 18:50	100-41-4	
4-Ethyltoluene	**<0.92**	ug/m3	4.0	0.92	1.61		02/16/20 18:50	622-96-8	
n-Heptane	**0.75J**	ug/m3	1.3	0.61	1.61		02/16/20 18:50	142-82-5	
Hexachloro-1,3-butadiene	**<3.2**	ug/m3	8.7	3.2	1.61		02/16/20 18:50	87-68-3	
n-Hexane	**<0.50**	ug/m3	1.2	0.50	1.61		02/16/20 18:50	110-54-3	
2-Hexanone	**<1.2**	ug/m3	6.7	1.2	1.61		02/16/20 18:50	591-78-6	
Methylene Chloride	**15.9**	ug/m3	5.7	1.9	1.61		02/16/20 18:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.83**	ug/m3	6.7	0.83	1.61		02/16/20 18:50	108-10-1	
Methyl-tert-butyl ether	**<1.1**	ug/m3	5.9	1.1	1.61		02/16/20 18:50	1634-04-4	
Naphthalene	**<2.1**	ug/m3	4.3	2.1	1.61		02/16/20 18:50	91-20-3	
2-Propanol	**3.7J**	ug/m3	4.0	1.1	1.61		02/16/20 18:50	67-63-0	
Propylene	**<0.23**	ug/m3	0.56	0.23	1.61		02/16/20 18:50	115-07-1	
Styrene	**1.9**	ug/m3	1.4	0.55	1.61		02/16/20 18:50	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/m3	1.1	0.50	1.61		02/16/20 18:50	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Sample: IA-21 **Lab ID: 10508414005** Collected: 02/11/20 15:48 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**4.3**	ug/m3	1.1	0.51	1.61		02/16/20 18:50	127-18-4	
Tetrahydrofuran	**<0.42**	ug/m3	0.97	0.42	1.61		02/16/20 18:50	109-99-9	
Toluene	**161**	ug/m3	1.2	0.57	1.61		02/16/20 18:50	108-88-3	
1,2,4-Trichlorobenzene	**<6.0**	ug/m3	12.1	6.0	1.61		02/16/20 18:50	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/m3	1.8	0.50	1.61		02/16/20 18:50	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/m3	0.89	0.39	1.61		02/16/20 18:50	79-00-5	
Trichloroethene	**1.4**	ug/m3	0.88	0.41	1.61		02/16/20 18:50	79-01-6	
Trichlorofluoromethane	**2.1**	ug/m3	1.8	0.59	1.61		02/16/20 18:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.91**	ug/m3	2.5	0.91	1.61		02/16/20 18:50	76-13-1	
1,2,4-Trimethylbenzene	**2.1**	ug/m3	1.6	0.73	1.61		02/16/20 18:50	95-63-6	
1,3,5-Trimethylbenzene	**0.92J**	ug/m3	1.6	0.64	1.61		02/16/20 18:50	108-67-8	
Vinyl acetate	**<0.43**	ug/m3	1.2	0.43	1.61		02/16/20 18:50	108-05-4	
Vinyl chloride	**<0.20**	ug/m3	0.42	0.20	1.61		02/16/20 18:50	75-01-4	
m&p-Xylene	**5.5**	ug/m3	2.8	1.1	1.61		02/16/20 18:50	179601-23-1	
o-Xylene	**1.6**	ug/m3	1.4	0.55	1.61		02/16/20 18:50	95-47-6	

Sample: IA-12 **Lab ID: 10508414006** Collected: 02/11/20 15:49 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**29.9**	ug/m3	4.0	2.0	1.68		02/16/20 19:20	67-64-1	
Benzene	**0.68**	ug/m3	0.55	0.26	1.68		02/16/20 19:20	71-43-2	
Benzyl chloride	**<2.0**	ug/m3	4.4	2.0	1.68		02/16/20 19:20	100-44-7	
Bromodichloromethane	**<0.61**	ug/m3	2.3	0.61	1.68		02/16/20 19:20	75-27-4	
Bromoform	**<2.4**	ug/m3	8.8	2.4	1.68		02/16/20 19:20	75-25-2	
Bromomethane	**<0.38**	ug/m3	1.3	0.38	1.68		02/16/20 19:20	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.76	0.22	1.68		02/16/20 19:20	106-99-0	
2-Butanone (MEK)	**21.1**	ug/m3	5.0	0.62	1.68		02/16/20 19:20	78-93-3	
Carbon disulfide	**<0.37**	ug/m3	1.1	0.37	1.68		02/16/20 19:20	75-15-0	
Carbon tetrachloride	**<0.72**	ug/m3	2.2	0.72	1.68		02/16/20 19:20	56-23-5	
Chlorobenzene	**<0.46**	ug/m3	1.6	0.46	1.68		02/16/20 19:20	108-90-7	
Chloroethane	**<0.44**	ug/m3	0.90	0.44	1.68		02/16/20 19:20	75-00-3	
Chloroform	**<0.33**	ug/m3	0.83	0.33	1.68		02/16/20 19:20	67-66-3	
Chloromethane	**0.85**	ug/m3	0.71	0.26	1.68		02/16/20 19:20	74-87-3	
Cyclohexane	**<0.59**	ug/m3	2.9	0.59	1.68		02/16/20 19:20	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	2.9	1.2	1.68		02/16/20 19:20	124-48-1	
1,2-Dibromoethane (EDB)	**<0.61**	ug/m3	1.3	0.61	1.68		02/16/20 19:20	106-93-4	
1,2-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		02/16/20 19:20	95-50-1	
1,3-Dichlorobenzene	**<0.98**	ug/m3	2.0	0.98	1.68		02/16/20 19:20	541-73-1	
1,4-Dichlorobenzene	**18.5**	ug/m3	5.1	1.7	1.68		02/16/20 19:20	106-46-7	
Dichlorodifluoromethane	**2.6**	ug/m3	1.7	0.49	1.68		02/16/20 19:20	75-71-8	
1,1-Dichloroethane	**<0.38**	ug/m3	1.4	0.38	1.68		02/16/20 19:20	75-34-3	
1,2-Dichloroethane	**<0.25**	ug/m3	0.69	0.25	1.68		02/16/20 19:20	107-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Sample: IA-12 **Lab ID: 10508414006** Collected: 02/11/20 15:49 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.46**	ug/m3	1.4	0.46	1.68		02/16/20 19:20	75-35-4	
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.4	0.37	1.68		02/16/20 19:20	156-59-2	
trans-1,2-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.68		02/16/20 19:20	156-60-5	
1,2-Dichloropropane	**<0.39**	ug/m3	1.6	0.39	1.68		02/16/20 19:20	78-87-5	
cis-1,3-Dichloropropene	**<0.51**	ug/m3	1.6	0.51	1.68		02/16/20 19:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.74**	ug/m3	1.6	0.74	1.68		02/16/20 19:20	10061-02-6	
Dichlorotetrafluoroethane	**<0.73**	ug/m3	2.4	0.73	1.68		02/16/20 19:20	76-14-2	
Ethanol	**256**	ug/m3	8.0	1.4	1.68		02/16/20 19:20	64-17-5	SS
Ethyl acetate	**<0.32**	ug/m3	1.2	0.32	1.68		02/16/20 19:20	141-78-6	
Ethylbenzene	**1.8**	ug/m3	1.5	0.51	1.68		02/16/20 19:20	100-41-4	
4-Ethyltoluene	**<0.96**	ug/m3	4.2	0.96	1.68		02/16/20 19:20	622-96-8	
n-Heptane	**<0.64**	ug/m3	1.4	0.64	1.68		02/16/20 19:20	142-82-5	
Hexachloro-1,3-butadiene	**<3.3**	ug/m3	9.1	3.3	1.68		02/16/20 19:20	87-68-3	
n-Hexane	**<0.52**	ug/m3	1.2	0.52	1.68		02/16/20 19:20	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.0	1.3	1.68		02/16/20 19:20	591-78-6	
Methylene Chloride	**17.1**	ug/m3	5.9	2.0	1.68		02/16/20 19:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.87**	ug/m3	7.0	0.87	1.68		02/16/20 19:20	108-10-1	
Methyl-tert-butyl ether	**<1.1**	ug/m3	6.1	1.1	1.68		02/16/20 19:20	1634-04-4	
Naphthalene	**<2.2**	ug/m3	4.5	2.2	1.68		02/16/20 19:20	91-20-3	
2-Propanol	**3.8J**	ug/m3	4.2	1.2	1.68		02/16/20 19:20	67-63-0	
Propylene	**<0.24**	ug/m3	0.59	0.24	1.68		02/16/20 19:20	115-07-1	
Styrene	**1.8**	ug/m3	1.5	0.58	1.68		02/16/20 19:20	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.52**	ug/m3	1.2	0.52	1.68		02/16/20 19:20	79-34-5	
Tetrachloroethene	**4.0**	ug/m3	1.2	0.53	1.68		02/16/20 19:20	127-18-4	
Tetrahydrofuran	**<0.44**	ug/m3	1.0	0.44	1.68		02/16/20 19:20	109-99-9	
Toluene	**174**	ug/m3	1.3	0.59	1.68		02/16/20 19:20	108-88-3	
1,2,4-Trichlorobenzene	**<6.2**	ug/m3	12.7	6.2	1.68		02/16/20 19:20	120-82-1	
1,1,1-Trichloroethane	**<0.52**	ug/m3	1.9	0.52	1.68		02/16/20 19:20	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.93	0.41	1.68		02/16/20 19:20	79-00-5	
Trichloroethene	**1.6**	ug/m3	0.92	0.43	1.68		02/16/20 19:20	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	1.9	0.61	1.68		02/16/20 19:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.95**	ug/m3	2.6	0.95	1.68		02/16/20 19:20	76-13-1	
1,2,4-Trimethylbenzene	**2.1**	ug/m3	1.7	0.76	1.68		02/16/20 19:20	95-63-6	
1,3,5-Trimethylbenzene	**1.0J**	ug/m3	1.7	0.67	1.68		02/16/20 19:20	108-67-8	
Vinyl acetate	**<0.45**	ug/m3	1.2	0.45	1.68		02/16/20 19:20	108-05-4	
Vinyl chloride	**<0.21**	ug/m3	0.44	0.21	1.68		02/16/20 19:20	75-01-4	
m&p-Xylene	**5.3**	ug/m3	3.0	1.2	1.68		02/16/20 19:20	179601-23-1	
o-Xylene	**1.4J**	ug/m3	1.5	0.58	1.68		02/16/20 19:20	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

QC Batch: 660221 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10508414001, 10508414002, 10508414003, 10508414004, 10508414005, 10508414006

METHOD BLANK: 3543971 Matrix: Air
Associated Lab Samples: 10508414001, 10508414002, 10508414003, 10508414004, 10508414005, 10508414006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	02/16/20 09:59	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	02/16/20 09:59	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	02/16/20 09:59	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	02/16/20 09:59	
1,1-Dichloroethane	ug/m3	<0.22	0.82	02/16/20 09:59	
1,1-Dichloroethene	ug/m3	<0.27	0.81	02/16/20 09:59	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	02/16/20 09:59	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	02/16/20 09:59	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	02/16/20 09:59	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	02/16/20 09:59	
1,2-Dichloroethane	ug/m3	<0.15	0.41	02/16/20 09:59	
1,2-Dichloropropane	ug/m3	<0.23	0.94	02/16/20 09:59	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	02/16/20 09:59	
1,3-Butadiene	ug/m3	<0.13	0.45	02/16/20 09:59	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	02/16/20 09:59	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	02/16/20 09:59	
2-Butanone (MEK)	ug/m3	<0.37	3.0	02/16/20 09:59	
2-Hexanone	ug/m3	<0.74	4.2	02/16/20 09:59	
2-Propanol	ug/m3	<0.70	2.5	02/16/20 09:59	
4-Ethyltoluene	ug/m3	<0.57	2.5	02/16/20 09:59	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	02/16/20 09:59	
Acetone	ug/m3	<1.2	2.4	02/16/20 09:59	
Benzene	ug/m3	<0.15	0.32	02/16/20 09:59	
Benzyl chloride	ug/m3	<1.2	2.6	02/16/20 09:59	
Bromodichloromethane	ug/m3	<0.37	1.4	02/16/20 09:59	
Bromoform	ug/m3	<1.4	5.2	02/16/20 09:59	
Bromomethane	ug/m3	<0.23	0.79	02/16/20 09:59	
Carbon disulfide	ug/m3	<0.22	0.63	02/16/20 09:59	
Carbon tetrachloride	ug/m3	<0.43	1.3	02/16/20 09:59	
Chlorobenzene	ug/m3	<0.28	0.94	02/16/20 09:59	
Chloroethane	ug/m3	<0.26	0.54	02/16/20 09:59	
Chloroform	ug/m3	<0.20	0.50	02/16/20 09:59	
Chloromethane	ug/m3	<0.16	0.42	02/16/20 09:59	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	02/16/20 09:59	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	02/16/20 09:59	
Cyclohexane	ug/m3	<0.35	1.8	02/16/20 09:59	
Dibromochloromethane	ug/m3	<0.72	1.7	02/16/20 09:59	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	02/16/20 09:59	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	02/16/20 09:59	
Ethanol	ug/m3	<0.81	4.8	02/16/20 09:59	SS
Ethyl acetate	ug/m3	<0.19	0.73	02/16/20 09:59	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

METHOD BLANK: 3543971 Matrix: Air
Associated Lab Samples: 10508414001, 10508414002, 10508414003, 10508414004, 10508414005, 10508414006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	02/16/20 09:59	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	02/16/20 09:59	
m&p-Xylene	ug/m3	<0.70	1.8	02/16/20 09:59	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	02/16/20 09:59	
Methylene Chloride	ug/m3	<1.2	3.5	02/16/20 09:59	
n-Heptane	ug/m3	<0.38	0.83	02/16/20 09:59	
n-Hexane	ug/m3	<0.31	0.72	02/16/20 09:59	
Naphthalene	ug/m3	<1.3	2.7	02/16/20 09:59	
o-Xylene	ug/m3	<0.34	0.88	02/16/20 09:59	
Propylene	ug/m3	<0.14	0.35	02/16/20 09:59	
Styrene	ug/m3	<0.34	0.87	02/16/20 09:59	
Tetrachloroethene	ug/m3	<0.31	0.69	02/16/20 09:59	
Tetrahydrofuran	ug/m3	<0.26	0.60	02/16/20 09:59	
Toluene	ug/m3	<0.35	0.77	02/16/20 09:59	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	02/16/20 09:59	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	02/16/20 09:59	
Trichloroethene	ug/m3	<0.25	0.55	02/16/20 09:59	
Trichlorofluoromethane	ug/m3	<0.37	1.1	02/16/20 09:59	
Vinyl acetate	ug/m3	<0.27	0.72	02/16/20 09:59	
Vinyl chloride	ug/m3	<0.13	0.26	02/16/20 09:59	

LABORATORY CONTROL SAMPLE: 3543972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	57.2	100	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	73.0	102	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	58.6	102	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	73.8	92	70-130	
1,1-Dichloroethane	ug/m3	42.7	42.2	99	70-130	
1,1-Dichloroethene	ug/m3	41.4	39.4	95	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	180	116	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	43.8	85	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	84.4	105	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	65.9	105	70-136	
1,2-Dichloroethane	ug/m3	42.4	42.9	101	70-130	
1,2-Dichloropropane	ug/m3	48.6	48.0	99	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	42.7	83	70-136	
1,3-Butadiene	ug/m3	23.3	22.9	98	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	66.6	105	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	64.6	102	70-145	
2-Butanone (MEK)	ug/m3	31.4	31.7	101	61-130	
2-Hexanone	ug/m3	42.8	41.6	97	70-138	
2-Propanol	ug/m3	119	117	98	70-136	
4-Ethyltoluene	ug/m3	52.4	53.2	101	70-142	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

LABORATORY CONTROL SAMPLE: 3543972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	43.7	100	70-134	
Acetone	ug/m3	126	98.3	78	59-137	
Benzene	ug/m3	33.5	31.1	93	70-133	
Benzyl chloride	ug/m3	55.1	57.6	105	70-139	
Bromodichloromethane	ug/m3	71.5	74.2	104	70-130	
Bromoform	ug/m3	110	117	106	60-140	
Bromomethane	ug/m3	41.3	36.6	89	70-131	
Carbon disulfide	ug/m3	33.3	33.1	99	70-130	
Carbon tetrachloride	ug/m3	66.2	70.0	106	70-133	
Chlorobenzene	ug/m3	48.3	48.6	101	70-131	
Chloroethane	ug/m3	28.1	27.6	98	70-141	
Chloroform	ug/m3	51.1	50.6	99	70-130	
Chloromethane	ug/m3	21.9	21.2	97	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	43.2	104	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	48.9	103	70-138	
Cyclohexane	ug/m3	36.7	32.4	88	70-133	
Dibromochloromethane	ug/m3	90.7	104	114	70-139	
Dichlorodifluoromethane	ug/m3	51.6	50.2	97	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	70.6	97	65-133	
Ethanol	ug/m3	103	80.0	78	65-135	SS
Ethyl acetate	ug/m3	38.6	37.9	98	70-135	
Ethylbenzene	ug/m3	45.6	39.7	87	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	139	124	70-134	
m&p-Xylene	ug/m3	91.2	77.0	84	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	37.7	98	70-131	
Methylene Chloride	ug/m3	182	173	95	69-130	
n-Heptane	ug/m3	43.6	39.9	92	70-130	
n-Hexane	ug/m3	37.6	34.5	92	70-131	
Naphthalene	ug/m3	57.7	58.9	102	63-130	
o-Xylene	ug/m3	45.5	48.9	108	70-135	
Propylene	ug/m3	18.2	17.5	96	63-139	
Styrene	ug/m3	44.9	47.4	106	70-143	
Tetrachloroethene	ug/m3	71	70.7	100	70-136	
Tetrahydrofuran	ug/m3	31.5	33.7	107	70-137	
Toluene	ug/m3	39.5	35.4	90	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	42.1	100	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	48.4	102	70-139	
Trichloroethene	ug/m3	56.3	54.9	97	70-132	
Trichlorofluoromethane	ug/m3	59.7	55.7	93	65-136	
Vinyl acetate	ug/m3	34.5	34.1	99	66-140	
Vinyl chloride	ug/m3	26.7	25.7	96	68-141	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

SAMPLE DUPLICATE: 3544218

Parameter	Units	10508414001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.52	<0.52		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.52	<0.52		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.95	<0.95		25	
1,1-Dichloroethane	ug/m3	<0.38	<0.38		25	
1,1-Dichloroethene	ug/m3	<0.46	<0.46		25	
1,2,4-Trichlorobenzene	ug/m3	<6.2	<6.2		25	
1,2,4-Trimethylbenzene	ug/m3	2.0	2.1	4	25	
1,2-Dibromoethane (EDB)	ug/m3	<0.61	<0.61		25	
1,2-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,2-Dichloroethane	ug/m3	<0.25	<0.25		25	
1,2-Dichloropropane	ug/m3	<0.39	<0.39		25	
1,3,5-Trimethylbenzene	ug/m3	1.0J	1.1J		25	
1,3-Butadiene	ug/m3	<0.22	<0.22		25	
1,3-Dichlorobenzene	ug/m3	<0.98	<0.98		25	
1,4-Dichlorobenzene	ug/m3	18.4	18.8	2	25	
2-Butanone (MEK)	ug/m3	16.2	15.8	3	25	
2-Hexanone	ug/m3	<1.3	<1.3		25	
2-Propanol	ug/m3	4.2	4.3	1	25	
4-Ethyltoluene	ug/m3	<0.96	<0.96		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.87	<0.87		25	
Acetone	ug/m3	26.8	25.7	4	25	
Benzene	ug/m3	1.1	1.1	2	25	
Benzyl chloride	ug/m3	<2.0	<2.0		25	
Bromodichloromethane	ug/m3	<0.61	<0.61		25	
Bromoform	ug/m3	<2.4	<2.4		25	
Bromomethane	ug/m3	<0.38	<0.38		25	
Carbon disulfide	ug/m3	<0.37	<0.37		25	
Carbon tetrachloride	ug/m3	<0.72	<0.72		25	
Chlorobenzene	ug/m3	<0.46	<0.46		25	
Chloroethane	ug/m3	<0.44	<0.44		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	0.92	0.83	9	25	
cis-1,2-Dichloroethene	ug/m3	<0.37	<0.37		25	
cis-1,3-Dichloropropene	ug/m3	<0.51	<0.51		25	
Cyclohexane	ug/m3	<0.59	<0.59		25	
Dibromochloromethane	ug/m3	<1.2	<1.2		25	
Dichlorodifluoromethane	ug/m3	2.7	2.6	3	25	
Dichlorotetrafluoroethane	ug/m3	<0.73	<0.73		25	
Ethanol	ug/m3	181	170	6	25	SS
Ethyl acetate	ug/m3	1.7	1.7	0	25	
Ethylbenzene	ug/m3	1.5	1.6	4	25	
Hexachloro-1,3-butadiene	ug/m3	<3.3	<3.3		25	
m&p-Xylene	ug/m3	4.8	4.8	1	25	
Methyl-tert-butyl ether	ug/m3	<1.1	<1.1		25	
Methylene Chloride	ug/m3	15.7	15.1	4	25	
n-Heptane	ug/m3	1.4J	<0.64		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

SAMPLE DUPLICATE: 3544218

Parameter	Units	10508414001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	1.9	2.0	8	25	
Naphthalene	ug/m3	<2.2	<2.2		25	
o-Xylene	ug/m3	1.2J	1.3J		25	
Propylene	ug/m3	<0.24	<0.24		25	
Styrene	ug/m3	12.7	13.0	2	25	
Tetrachloroethene	ug/m3	16.8	17.1	1	25	
Tetrahydrofuran	ug/m3	<0.44	<0.44		25	
Toluene	ug/m3	170	169	1	25	
trans-1,2-Dichloroethene	ug/m3	<0.48	<0.48		25	
trans-1,3-Dichloropropene	ug/m3	<0.74	<0.74		25	
Trichloroethene	ug/m3	1.5	1.4	5	25	
Trichlorofluoromethane	ug/m3	1.4J	1.3J		25	
Vinyl acetate	ug/m3	<0.45	<0.45		25	
Vinyl chloride	ug/m3	<0.21	<0.21		25	

SAMPLE DUPLICATE: 3544219

Parameter	Units	10508414002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.52	<0.52		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.52	<0.52		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.95	<0.95		25	
1,1-Dichloroethane	ug/m3	<0.38	<0.38		25	
1,1-Dichloroethene	ug/m3	<0.46	<0.46		25	
1,2,4-Trichlorobenzene	ug/m3	<6.2	<6.2		25	
1,2,4-Trimethylbenzene	ug/m3	2.2	2.2	1	25	
1,2-Dibromoethane (EDB)	ug/m3	<0.61	<0.61		25	
1,2-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,2-Dichloroethane	ug/m3	<0.25	<0.25		25	
1,2-Dichloropropane	ug/m3	<0.39	<0.39		25	
1,3,5-Trimethylbenzene	ug/m3	1.1J	1.1J		25	
1,3-Butadiene	ug/m3	<0.22	<0.22		25	
1,3-Dichlorobenzene	ug/m3	<0.98	<0.98		25	
1,4-Dichlorobenzene	ug/m3	19.1	18.8	1	25	
2-Butanone (MEK)	ug/m3	17.6	17.3	1	25	
2-Hexanone	ug/m3	<1.3	<1.3		25	
2-Propanol	ug/m3	5.0	5.2	3	25	
4-Ethyltoluene	ug/m3	<0.96	<0.96		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.87	<0.87		25	
Acetone	ug/m3	26.9	27.2	1	25	
Benzene	ug/m3	1.2	1.2	2	25	
Benzyl chloride	ug/m3	<2.0	<2.0		25	
Bromodichloromethane	ug/m3	<0.61	<0.61		25	
Bromoform	ug/m3	<2.4	<2.4		25	
Bromomethane	ug/m3	<0.38	<0.38		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

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

SAMPLE DUPLICATE: 3544219

Parameter	Units	10508414002 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	<0.37	<0.37		25	
Carbon tetrachloride	ug/m3	<0.72	<0.72		25	
Chlorobenzene	ug/m3	<0.46	<0.46		25	
Chloroethane	ug/m3	<0.44	<0.44		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	0.87	0.92	5	25	
cis-1,2-Dichloroethene	ug/m3	<0.37	<0.37		25	
cis-1,3-Dichloropropene	ug/m3	<0.51	<0.51		25	
Cyclohexane	ug/m3	<0.59	1.0J		25	
Dibromochloromethane	ug/m3	<1.2	<1.2		25	
Dichlorodifluoromethane	ug/m3	2.5	2.6	4	25	
Dichlorotetrafluoroethane	ug/m3	<0.73	<0.73		25	
Ethanol	ug/m3	207	213	3	25	SS
Ethyl acetate	ug/m3	1.8	1.7	5	25	
Ethylbenzene	ug/m3	1.6	1.6	1	25	
Hexachloro-1,3-butadiene	ug/m3	<3.3	<3.3		25	
m&p-Xylene	ug/m3	5.2	5.3	2	25	
Methyl-tert-butyl ether	ug/m3	<1.1	<1.1		25	
Methylene Chloride	ug/m3	15.1	15.0	0	25	
n-Heptane	ug/m3	<0.64	<0.64		25	
n-Hexane	ug/m3	2.2	2.2	4	25	
Naphthalene	ug/m3	<2.2	<2.2		25	
o-Xylene	ug/m3	1.4J	1.4J		25	
Propylene	ug/m3	<0.24	<0.24		25	
Styrene	ug/m3	20.3	20.8	2	25	
Tetrachloroethene	ug/m3	13.1	13.1	0	25	
Tetrahydrofuran	ug/m3	0.57J	0.56J		25	
Toluene	ug/m3	177	181	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.48	<0.48		25	
trans-1,3-Dichloropropene	ug/m3	<0.74	<0.74		25	
Trichloroethene	ug/m3	1.5	1.5	0	25	
Trichlorofluoromethane	ug/m3	1.3J	1.4J		25	
Vinyl acetate	ug/m3	<0.45	<0.45		25	
Vinyl chloride	ug/m3	<0.21	<0.21		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

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508414

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10508414001	**IA-14**	TO-15	660221		
10508414002	**IA-5**	TO-15	660221		
10508414003	**IA-19**	TO-15	660221		
10508414004	**IA-20**	TO-15	660221		
10508414005	**IA-21**	TO-15	660221		
10508414006	**IA-12**	TO-15	660221		

Pace Analytical
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All rele

WO# : 10508414

10508414

Section A Required Client Information:

Company: KEY ENGINEERING GROUP
Address: 135 N. WATER ST. #510
MILW. WI 53202
Email To: TSchoen@keyengineering.com
Phone: 414.225.0544 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Key Engineering
Copy To:
Purchase Order No.: 208408
Project Name: Schaefer Brush
Project Number: 1604-1204-0002

Section C Invoice Information:

Attention: Toni Schoen
Company Name: Key Engineering
Address:
Pace Quote Reference: 08071744
Pace Project Manager/Sales Rep.
Pace Profile #: 34194

Page: 1 of 1

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ X mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Initial Field reading (-inches of Hg)	Final Field reading (-inches of Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	IA-14	6LC		2/11/20	7:45	2/11	1542	-30	-5	3616	03006							X			W1
2	IA-5				7:49		1543	-29	-5	1285	22788										W2
3	IA-19				7:52		1544	-27	-5	511	03788										W3
4	IA-20				7:53		1545	-29	-6	2834	10104										W4
5	IA-21				7:58		1548	-25	-2	2987	19891										W5
6	IA-12	↓		↓	7:59	↓	1549	-26	-4	2114	10775							↓			W6
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
KEY	2/11	1700	FedEx	2/13/20	MG

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jason Wuerth
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY): 02-12-20

SAMPLE CONDITIONS				
—	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	

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

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Nov2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.20	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt

Client Name: Key Engr Project #: **WO#: 10508414**

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial See Exception ☐

PM: KNH **Due Date: 02/20/20**

CLIENT: Key Eng.

Tracking Number: 1083 0284 6720

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

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

Temp. (TO17 and TO13 samples only) (°C): — Corrected Temp (°C): —

Thermometer Used: ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C Correction Factor: —

Date & Initials of Person Examining Contents: 2-13-20 MI

Type of ice Received ☐ Blue ☐ Wet ☒ None

		Comments:
Chain of Custody Present?	☒ Yes ☐ No	1.
Chain of Custody Filled Out?	☒ Yes ☐ No	2.
Chain of Custody Relinquished?	☒ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	6.
Rush Turn Around Time Requested?	☐ Yes ☒ No	7.
Sufficient Volume?	☒ Yes ☐ No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	☒ Yes ☐ No ☒ Yes ☐ No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒ Yes ☐ No	10.
Media: (Air Can) Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes ☐ No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒ Yes ☐ No	13.

Gauge # ☒ 10AIR26 ☐ 10AIR34 ☐ 10AIR35 ☐ 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
1A-14	3616	0306	-6	+5					
" 5	1295	2278	-6	+5					
" 19	0511	0318	-5	+5					
" 20	2834	1014	-7	+5					
" 21	2987	1981	-5	+5					
" 12	2114	1075	-6	+5					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kristen Hoffberg **Date:** 2/14/2020

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)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

February 18, 2020

Toni Schoen
Key Engineering
735 N. Water St.
Milwaukee, WI 53202

RE: Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

Dear Toni Schoen:
Enclosed are the analytical results for sample(s) received by the laboratory on February 13, 2020. 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,

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

Enclosures

cc: Valerie Collins, Key Engineering Milwaukee

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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CERTIFICATIONS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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1700 Elm Street - Suite 200
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SAMPLE SUMMARY

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10508418001	**SS-11**	Air	02/11/20 08:52	02/13/20 11:15
10508418002	**SS-12**	Air	02/11/20 09:02	02/13/20 11:15
10508418003	**SS-13**	Air	02/11/20 08:56	02/13/20 11:15

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SAMPLE ANALYTE COUNT

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10508418001	**SS-11**	TO-15	MLS	61	PASI-M
10508418002	**SS-12**	TO-15	MLS	61	PASI-M
10508418003	**SS-13**	TO-15	MLS	61	PASI-M

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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10508418001	**SS-11**					
TO-15	Acetone	7.2	ug/m3	4.5	02/16/20 19:49	
TO-15	Benzene	0.56J	ug/m3	0.61	02/16/20 19:49	
TO-15	2-Butanone (MEK)	1.1J	ug/m3	5.6	02/16/20 19:49	
TO-15	1,4-Dichlorobenzene	6.5	ug/m3	5.7	02/16/20 19:49	
TO-15	Dichlorodifluoromethane	5.5	ug/m3	1.9	02/16/20 19:49	
TO-15	Ethanol	17.1	ug/m3	9.0	02/16/20 19:49	SS
TO-15	Ethylbenzene	1.8	ug/m3	1.7	02/16/20 19:49	
TO-15	4-Ethyltoluene	2.1J	ug/m3	4.7	02/16/20 19:49	
TO-15	n-Hexane	0.68J	ug/m3	1.3	02/16/20 19:49	
TO-15	Methylene Chloride	3.6J	ug/m3	6.6	02/16/20 19:49	
TO-15	Naphthalene	7.2	ug/m3	5.0	02/16/20 19:49	
TO-15	2-Propanol	2.5J	ug/m3	4.7	02/16/20 19:49	
TO-15	Styrene	0.76J	ug/m3	1.6	02/16/20 19:49	
TO-15	Tetrachloroethene	179	ug/m3	1.3	02/16/20 19:49	
TO-15	Tetrahydrofuran	3.1	ug/m3	1.1	02/16/20 19:49	
TO-15	Toluene	7.3	ug/m3	1.4	02/16/20 19:49	
TO-15	1,1,1-Trichloroethane	0.62J	ug/m3	2.1	02/16/20 19:49	
TO-15	Trichloroethene	6.9	ug/m3	1.0	02/16/20 19:49	
TO-15	Trichlorofluoromethane	1.3J	ug/m3	2.1	02/16/20 19:49	
TO-15	1,2,4-Trimethylbenzene	7.8	ug/m3	1.9	02/16/20 19:49	
TO-15	1,3,5-Trimethylbenzene	2.9	ug/m3	1.9	02/16/20 19:49	
TO-15	m&p-Xylene	6.5	ug/m3	3.3	02/16/20 19:49	
TO-15	o-Xylene	3.0	ug/m3	1.7	02/16/20 19:49	
10508418002	**SS-12**					
TO-15	Acetone	5.2	ug/m3	4.6	02/16/20 20:49	
TO-15	Benzene	0.82	ug/m3	0.62	02/16/20 20:49	
TO-15	2-Butanone (MEK)	0.95J	ug/m3	5.8	02/16/20 20:49	
TO-15	1,4-Dichlorobenzene	5.0J	ug/m3	5.9	02/16/20 20:49	
TO-15	Dichlorodifluoromethane	2.8	ug/m3	1.9	02/16/20 20:49	
TO-15	Ethanol	56.7	ug/m3	9.2	02/16/20 20:49	SS
TO-15	Ethylbenzene	2.4	ug/m3	1.7	02/16/20 20:49	
TO-15	4-Ethyltoluene	2.7J	ug/m3	4.8	02/16/20 20:49	
TO-15	n-Hexane	0.81J	ug/m3	1.4	02/16/20 20:49	
TO-15	Naphthalene	7.9	ug/m3	5.1	02/16/20 20:49	
TO-15	Styrene	0.91J	ug/m3	1.7	02/16/20 20:49	
TO-15	Tetrachloroethene	3500	ug/m3	39.7	02/17/20 10:23	
TO-15	Tetrahydrofuran	4.3	ug/m3	1.2	02/16/20 20:49	
TO-15	Toluene	9.6	ug/m3	1.5	02/16/20 20:49	
TO-15	1,1,1-Trichloroethane	6.6	ug/m3	2.1	02/16/20 20:49	
TO-15	Trichloroethene	95.8	ug/m3	1.0	02/16/20 20:49	
TO-15	Trichlorofluoromethane	1.8J	ug/m3	2.2	02/16/20 20:49	
TO-15	1,1,2-Trichlorotrifluoroethane	3.6	ug/m3	3.0	02/16/20 20:49	
TO-15	1,2,4-Trimethylbenzene	9.1	ug/m3	1.9	02/16/20 20:49	
TO-15	1,3,5-Trimethylbenzene	3.2	ug/m3	1.9	02/16/20 20:49	
TO-15	m&p-Xylene	8.4	ug/m3	3.4	02/16/20 20:49	
TO-15	o-Xylene	4.1	ug/m3	1.7	02/16/20 20:49	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10508418003	**SS-13**					
TO-15	Acetone	19.6	ug/m3	4.6	02/16/20 20:19	
TO-15	Benzene	0.62J	ug/m3	0.62	02/16/20 20:19	
TO-15	2-Butanone (MEK)	4.4J	ug/m3	5.8	02/16/20 20:19	
TO-15	1,4-Dichlorobenzene	4.4J	ug/m3	5.9	02/16/20 20:19	
TO-15	Dichlorodifluoromethane	2.8	ug/m3	1.9	02/16/20 20:19	
TO-15	Ethanol	97.5	ug/m3	9.2	02/16/20 20:19	SS
TO-15	Ethylbenzene	2.2	ug/m3	1.7	02/16/20 20:19	
TO-15	4-Ethyltoluene	2.3J	ug/m3	4.8	02/16/20 20:19	
TO-15	n-Hexane	1.1J	ug/m3	1.4	02/16/20 20:19	
TO-15	Methylene Chloride	4.8J	ug/m3	6.8	02/16/20 20:19	
TO-15	Naphthalene	7.4	ug/m3	5.1	02/16/20 20:19	
TO-15	2-Propanol	7.6	ug/m3	4.8	02/16/20 20:19	
TO-15	Styrene	0.88J	ug/m3	1.7	02/16/20 20:19	
TO-15	Tetrachloroethene	5.1	ug/m3	1.3	02/16/20 20:19	
TO-15	Tetrahydrofuran	3.9	ug/m3	1.2	02/16/20 20:19	
TO-15	Toluene	7.3	ug/m3	1.5	02/16/20 20:19	
TO-15	Trichlorofluoromethane	1.4J	ug/m3	2.2	02/16/20 20:19	
TO-15	1,2,4-Trimethylbenzene	8.4	ug/m3	1.9	02/16/20 20:19	
TO-15	1,3,5-Trimethylbenzene	3.3	ug/m3	1.9	02/16/20 20:19	
TO-15	m&p-Xylene	7.5	ug/m3	3.4	02/16/20 20:19	
TO-15	o-Xylene	3.6	ug/m3	1.7	02/16/20 20:19	

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

Sample: SS-11 **Lab ID: 10508418001** Collected: 02/11/20 08:52 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**7.2**	ug/m3	4.5	2.3	1.87		02/16/20 19:49	67-64-1	
Benzene	**0.56J**	ug/m3	0.61	0.29	1.87		02/16/20 19:49	71-43-2	
Benzyl chloride	**<2.2**	ug/m3	4.9	2.2	1.87		02/16/20 19:49	100-44-7	
Bromodichloromethane	**<0.68**	ug/m3	2.5	0.68	1.87		02/16/20 19:49	75-27-4	
Bromoform	**<2.7**	ug/m3	9.8	2.7	1.87		02/16/20 19:49	75-25-2	
Bromomethane	**<0.42**	ug/m3	1.5	0.42	1.87		02/16/20 19:49	74-83-9	
1,3-Butadiene	**<0.24**	ug/m3	0.84	0.24	1.87		02/16/20 19:49	106-99-0	
2-Butanone (MEK)	**1.1J**	ug/m3	5.6	0.69	1.87		02/16/20 19:49	78-93-3	
Carbon disulfide	**<0.41**	ug/m3	1.2	0.41	1.87		02/16/20 19:49	75-15-0	
Carbon tetrachloride	**<0.80**	ug/m3	2.4	0.80	1.87		02/16/20 19:49	56-23-5	
Chlorobenzene	**<0.51**	ug/m3	1.8	0.51	1.87		02/16/20 19:49	108-90-7	
Chloroethane	**<0.49**	ug/m3	1.0	0.49	1.87		02/16/20 19:49	75-00-3	
Chloroform	**<0.37**	ug/m3	0.93	0.37	1.87		02/16/20 19:49	67-66-3	
Chloromethane	**<0.29**	ug/m3	0.79	0.29	1.87		02/16/20 19:49	74-87-3	
Cyclohexane	**<0.66**	ug/m3	3.3	0.66	1.87		02/16/20 19:49	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.2	1.3	1.87		02/16/20 19:49	124-48-1	
1,2-Dibromoethane (EDB)	**<0.68**	ug/m3	1.5	0.68	1.87		02/16/20 19:49	106-93-4	
1,2-Dichlorobenzene	**<0.93**	ug/m3	2.3	0.93	1.87		02/16/20 19:49	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.3	1.1	1.87		02/16/20 19:49	541-73-1	
1,4-Dichlorobenzene	**6.5**	ug/m3	5.7	1.9	1.87		02/16/20 19:49	106-46-7	
Dichlorodifluoromethane	**5.5**	ug/m3	1.9	0.55	1.87		02/16/20 19:49	75-71-8	
1,1-Dichloroethane	**<0.42**	ug/m3	1.5	0.42	1.87		02/16/20 19:49	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/m3	0.77	0.28	1.87		02/16/20 19:49	107-06-2	
1,1-Dichloroethene	**<0.51**	ug/m3	1.5	0.51	1.87		02/16/20 19:49	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.5	0.41	1.87		02/16/20 19:49	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/m3	1.5	0.53	1.87		02/16/20 19:49	156-60-5	
1,2-Dichloropropane	**<0.43**	ug/m3	1.8	0.43	1.87		02/16/20 19:49	78-87-5	
cis-1,3-Dichloropropene	**<0.57**	ug/m3	1.7	0.57	1.87		02/16/20 19:49	10061-01-5	
trans-1,3-Dichloropropene	**<0.82**	ug/m3	1.7	0.82	1.87		02/16/20 19:49	10061-02-6	
Dichlorotetrafluoroethane	**<0.82**	ug/m3	2.7	0.82	1.87		02/16/20 19:49	76-14-2	
Ethanol	**17.1**	ug/m3	9.0	1.5	1.87		02/16/20 19:49	64-17-5	SS
Ethyl acetate	**<0.36**	ug/m3	1.4	0.36	1.87		02/16/20 19:49	141-78-6	
Ethylbenzene	**1.8**	ug/m3	1.7	0.57	1.87		02/16/20 19:49	100-41-4	
4-Ethyltoluene	**2.1J**	ug/m3	4.7	1.1	1.87		02/16/20 19:49	622-96-8	
n-Heptane	**<0.71**	ug/m3	1.6	0.71	1.87		02/16/20 19:49	142-82-5	
Hexachloro-1,3-butadiene	**<3.7**	ug/m3	10.1	3.7	1.87		02/16/20 19:49	87-68-3	
n-Hexane	**0.68J**	ug/m3	1.3	0.58	1.87		02/16/20 19:49	110-54-3	
2-Hexanone	**<1.4**	ug/m3	7.8	1.4	1.87		02/16/20 19:49	591-78-6	
Methylene Chloride	**3.6J**	ug/m3	6.6	2.3	1.87		02/16/20 19:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.97**	ug/m3	7.8	0.97	1.87		02/16/20 19:49	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.8	1.2	1.87		02/16/20 19:49	1634-04-4	
Naphthalene	**7.2**	ug/m3	5.0	2.4	1.87		02/16/20 19:49	91-20-3	
2-Propanol	**2.5J**	ug/m3	4.7	1.3	1.87		02/16/20 19:49	67-63-0	
Propylene	**<0.26**	ug/m3	0.65	0.26	1.87		02/16/20 19:49	115-07-1	
Styrene	**0.76J**	ug/m3	1.6	0.64	1.87		02/16/20 19:49	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.3	0.58	1.87		02/16/20 19:49	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

Sample: SS-11 **Lab ID: 10508418001** Collected: 02/11/20 08:52 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**179**	ug/m3	1.3	0.59	1.87		02/16/20 19:49	127-18-4	
Tetrahydrofuran	**3.1**	ug/m3	1.1	0.49	1.87		02/16/20 19:49	109-99-9	
Toluene	**7.3**	ug/m3	1.4	0.66	1.87		02/16/20 19:49	108-88-3	
1,2,4-Trichlorobenzene	**<7.0**	ug/m3	14.1	7.0	1.87		02/16/20 19:49	120-82-1	
1,1,1-Trichloroethane	**0.62J**	ug/m3	2.1	0.58	1.87		02/16/20 19:49	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.87		02/16/20 19:49	79-00-5	
Trichloroethene	**6.9**	ug/m3	1.0	0.47	1.87		02/16/20 19:49	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.1	0.68	1.87		02/16/20 19:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.1**	ug/m3	2.9	1.1	1.87		02/16/20 19:49	76-13-1	
1,2,4-Trimethylbenzene	**7.8**	ug/m3	1.9	0.85	1.87		02/16/20 19:49	95-63-6	
1,3,5-Trimethylbenzene	**2.9**	ug/m3	1.9	0.75	1.87		02/16/20 19:49	108-67-8	
Vinyl acetate	**<0.50**	ug/m3	1.3	0.50	1.87		02/16/20 19:49	108-05-4	
Vinyl chloride	**<0.24**	ug/m3	0.49	0.24	1.87		02/16/20 19:49	75-01-4	
m&p-Xylene	**6.5**	ug/m3	3.3	1.3	1.87		02/16/20 19:49	179601-23-1	
o-Xylene	**3.0**	ug/m3	1.7	0.64	1.87		02/16/20 19:49	95-47-6	

Sample: SS-12 **Lab ID: 10508418002** Collected: 02/11/20 09:02 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**5.2**	ug/m3	4.6	2.3	1.92		02/16/20 20:49	67-64-1	
Benzene	**0.82**	ug/m3	0.62	0.29	1.92		02/16/20 20:49	71-43-2	
Benzyl chloride	**<2.3**	ug/m3	5.0	2.3	1.92		02/16/20 20:49	100-44-7	
Bromodichloromethane	**<0.70**	ug/m3	2.6	0.70	1.92		02/16/20 20:49	75-27-4	
Bromoform	**<2.7**	ug/m3	10.1	2.7	1.92		02/16/20 20:49	75-25-2	
Bromomethane	**<0.44**	ug/m3	1.5	0.44	1.92		02/16/20 20:49	74-83-9	
1,3-Butadiene	**<0.25**	ug/m3	0.86	0.25	1.92		02/16/20 20:49	106-99-0	
2-Butanone (MEK)	**0.95J**	ug/m3	5.8	0.71	1.92		02/16/20 20:49	78-93-3	
Carbon disulfide	**<0.42**	ug/m3	1.2	0.42	1.92		02/16/20 20:49	75-15-0	
Carbon tetrachloride	**<0.82**	ug/m3	2.5	0.82	1.92		02/16/20 20:49	56-23-5	
Chlorobenzene	**<0.53**	ug/m3	1.8	0.53	1.92		02/16/20 20:49	108-90-7	
Chloroethane	**<0.50**	ug/m3	1.0	0.50	1.92		02/16/20 20:49	75-00-3	
Chloroform	**<0.38**	ug/m3	0.95	0.38	1.92		02/16/20 20:49	67-66-3	
Chloromethane	**<0.30**	ug/m3	0.81	0.30	1.92		02/16/20 20:49	74-87-3	
Cyclohexane	**<0.68**	ug/m3	3.4	0.68	1.92		02/16/20 20:49	110-82-7	
Dibromochloromethane	**<1.4**	ug/m3	3.3	1.4	1.92		02/16/20 20:49	124-48-1	
1,2-Dibromoethane (EDB)	**<0.70**	ug/m3	1.5	0.70	1.92		02/16/20 20:49	106-93-4	
1,2-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		02/16/20 20:49	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.3	1.1	1.92		02/16/20 20:49	541-73-1	
1,4-Dichlorobenzene	**5.0J**	ug/m3	5.9	1.9	1.92		02/16/20 20:49	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.9	0.56	1.92		02/16/20 20:49	75-71-8	
1,1-Dichloroethane	**<0.43**	ug/m3	1.6	0.43	1.92		02/16/20 20:49	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/m3	0.79	0.29	1.92		02/16/20 20:49	107-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

Sample: SS-12 **Lab ID: 10508418002** Collected: 02/11/20 09:02 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.53**	ug/m3	1.5	0.53	1.92		02/16/20 20:49	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/m3	1.5	0.42	1.92		02/16/20 20:49	156-59-2	
trans-1,2-Dichloroethene	**<0.55**	ug/m3	1.5	0.55	1.92		02/16/20 20:49	156-60-5	
1,2-Dichloropropane	**<0.44**	ug/m3	1.8	0.44	1.92		02/16/20 20:49	78-87-5	
cis-1,3-Dichloropropene	**<0.58**	ug/m3	1.8	0.58	1.92		02/16/20 20:49	10061-01-5	
trans-1,3-Dichloropropene	**<0.84**	ug/m3	1.8	0.84	1.92		02/16/20 20:49	10061-02-6	
Dichlorotetrafluoroethane	**<0.84**	ug/m3	2.7	0.84	1.92		02/16/20 20:49	76-14-2	
Ethanol	**56.7**	ug/m3	9.2	1.6	1.92		02/16/20 20:49	64-17-5	SS
Ethyl acetate	**<0.36**	ug/m3	1.4	0.36	1.92		02/16/20 20:49	141-78-6	
Ethylbenzene	**2.4**	ug/m3	1.7	0.59	1.92		02/16/20 20:49	100-41-4	
4-Ethyltoluene	**2.7J**	ug/m3	4.8	1.1	1.92		02/16/20 20:49	622-96-8	
n-Heptane	**<0.73**	ug/m3	1.6	0.73	1.92		02/16/20 20:49	142-82-5	
Hexachloro-1,3-butadiene	**<3.8**	ug/m3	10.4	3.8	1.92		02/16/20 20:49	87-68-3	
n-Hexane	**0.81J**	ug/m3	1.4	0.60	1.92		02/16/20 20:49	110-54-3	
2-Hexanone	**<1.4**	ug/m3	8.0	1.4	1.92		02/16/20 20:49	591-78-6	
Methylene Chloride	**<2.3**	ug/m3	6.8	2.3	1.92		02/16/20 20:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.99**	ug/m3	8.0	0.99	1.92		02/16/20 20:49	108-10-1	
Methyl-tert-butyl ether	**<1.3**	ug/m3	7.0	1.3	1.92		02/16/20 20:49	1634-04-4	
Naphthalene	**7.9**	ug/m3	5.1	2.5	1.92		02/16/20 20:49	91-20-3	
2-Propanol	**<1.3**	ug/m3	4.8	1.3	1.92		02/16/20 20:49	67-63-0	
Propylene	**<0.27**	ug/m3	0.67	0.27	1.92		02/16/20 20:49	115-07-1	
Styrene	**0.91J**	ug/m3	1.7	0.66	1.92		02/16/20 20:49	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.59**	ug/m3	1.3	0.59	1.92		02/16/20 20:49	79-34-5	
Tetrachloroethene	**3500**	ug/m3	39.7	18.1	57.6		02/17/20 10:23	127-18-4	
Tetrahydrofuran	**4.3**	ug/m3	1.2	0.50	1.92		02/16/20 20:49	109-99-9	
Toluene	**9.6**	ug/m3	1.5	0.67	1.92		02/16/20 20:49	108-88-3	
1,2,4-Trichlorobenzene	**<7.1**	ug/m3	14.5	7.1	1.92		02/16/20 20:49	120-82-1	
1,1,1-Trichloroethane	**6.6**	ug/m3	2.1	0.59	1.92		02/16/20 20:49	71-55-6	
1,1,2-Trichloroethane	**<0.46**	ug/m3	1.1	0.46	1.92		02/16/20 20:49	79-00-5	
Trichloroethene	**95.8**	ug/m3	1.0	0.49	1.92		02/16/20 20:49	79-01-6	
Trichlorofluoromethane	**1.8J**	ug/m3	2.2	0.70	1.92		02/16/20 20:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3.6**	ug/m3	3.0	1.1	1.92		02/16/20 20:49	76-13-1	
1,2,4-Trimethylbenzene	**9.1**	ug/m3	1.9	0.87	1.92		02/16/20 20:49	95-63-6	
1,3,5-Trimethylbenzene	**3.2**	ug/m3	1.9	0.77	1.92		02/16/20 20:49	108-67-8	
Vinyl acetate	**<0.52**	ug/m3	1.4	0.52	1.92		02/16/20 20:49	108-05-4	
Vinyl chloride	**<0.24**	ug/m3	0.50	0.24	1.92		02/16/20 20:49	75-01-4	
m&p-Xylene	**8.4**	ug/m3	3.4	1.3	1.92		02/16/20 20:49	179601-23-1	
o-Xylene	**4.1**	ug/m3	1.7	0.66	1.92		02/16/20 20:49	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

Sample: SS-13 **Lab ID: 10508418003** Collected: 02/11/20 08:56 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**19.6**	ug/m3	4.6	2.3	1.92		02/16/20 20:19	67-64-1	
Benzene	**0.62J**	ug/m3	0.62	0.29	1.92		02/16/20 20:19	71-43-2	
Benzyl chloride	**<2.3**	ug/m3	5.0	2.3	1.92		02/16/20 20:19	100-44-7	
Bromodichloromethane	**<0.70**	ug/m3	2.6	0.70	1.92		02/16/20 20:19	75-27-4	
Bromoform	**<2.7**	ug/m3	10.1	2.7	1.92		02/16/20 20:19	75-25-2	
Bromomethane	**<0.44**	ug/m3	1.5	0.44	1.92		02/16/20 20:19	74-83-9	
1,3-Butadiene	**<0.25**	ug/m3	0.86	0.25	1.92		02/16/20 20:19	106-99-0	
2-Butanone (MEK)	**4.4J**	ug/m3	5.8	0.71	1.92		02/16/20 20:19	78-93-3	
Carbon disulfide	**<0.42**	ug/m3	1.2	0.42	1.92		02/16/20 20:19	75-15-0	
Carbon tetrachloride	**<0.82**	ug/m3	2.5	0.82	1.92		02/16/20 20:19	56-23-5	
Chlorobenzene	**<0.53**	ug/m3	1.8	0.53	1.92		02/16/20 20:19	108-90-7	
Chloroethane	**<0.50**	ug/m3	1.0	0.50	1.92		02/16/20 20:19	75-00-3	
Chloroform	**<0.38**	ug/m3	0.95	0.38	1.92		02/16/20 20:19	67-66-3	
Chloromethane	**<0.30**	ug/m3	0.81	0.30	1.92		02/16/20 20:19	74-87-3	
Cyclohexane	**<0.68**	ug/m3	3.4	0.68	1.92		02/16/20 20:19	110-82-7	
Dibromochloromethane	**<1.4**	ug/m3	3.3	1.4	1.92		02/16/20 20:19	124-48-1	
1,2-Dibromoethane (EDB)	**<0.70**	ug/m3	1.5	0.70	1.92		02/16/20 20:19	106-93-4	
1,2-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		02/16/20 20:19	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.3	1.1	1.92		02/16/20 20:19	541-73-1	
1,4-Dichlorobenzene	**4.4J**	ug/m3	5.9	1.9	1.92		02/16/20 20:19	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.9	0.56	1.92		02/16/20 20:19	75-71-8	
1,1-Dichloroethane	**<0.43**	ug/m3	1.6	0.43	1.92		02/16/20 20:19	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/m3	0.79	0.29	1.92		02/16/20 20:19	107-06-2	
1,1-Dichloroethene	**<0.53**	ug/m3	1.5	0.53	1.92		02/16/20 20:19	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/m3	1.5	0.42	1.92		02/16/20 20:19	156-59-2	
trans-1,2-Dichloroethene	**<0.55**	ug/m3	1.5	0.55	1.92		02/16/20 20:19	156-60-5	
1,2-Dichloropropane	**<0.44**	ug/m3	1.8	0.44	1.92		02/16/20 20:19	78-87-5	
cis-1,3-Dichloropropene	**<0.58**	ug/m3	1.8	0.58	1.92		02/16/20 20:19	10061-01-5	
trans-1,3-Dichloropropene	**<0.84**	ug/m3	1.8	0.84	1.92		02/16/20 20:19	10061-02-6	
Dichlorotetrafluoroethane	**<0.84**	ug/m3	2.7	0.84	1.92		02/16/20 20:19	76-14-2	
Ethanol	**97.5**	ug/m3	9.2	1.6	1.92		02/16/20 20:19	64-17-5	SS
Ethyl acetate	**<0.36**	ug/m3	1.4	0.36	1.92		02/16/20 20:19	141-78-6	
Ethylbenzene	**2.2**	ug/m3	1.7	0.59	1.92		02/16/20 20:19	100-41-4	
4-Ethyltoluene	**2.3J**	ug/m3	4.8	1.1	1.92		02/16/20 20:19	622-96-8	
n-Heptane	**<0.73**	ug/m3	1.6	0.73	1.92		02/16/20 20:19	142-82-5	
Hexachloro-1,3-butadiene	**<3.8**	ug/m3	10.4	3.8	1.92		02/16/20 20:19	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.4	0.60	1.92		02/16/20 20:19	110-54-3	
2-Hexanone	**<1.4**	ug/m3	8.0	1.4	1.92		02/16/20 20:19	591-78-6	
Methylene Chloride	**4.8J**	ug/m3	6.8	2.3	1.92		02/16/20 20:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.99**	ug/m3	8.0	0.99	1.92		02/16/20 20:19	108-10-1	
Methyl-tert-butyl ether	**<1.3**	ug/m3	7.0	1.3	1.92		02/16/20 20:19	1634-04-4	
Naphthalene	**7.4**	ug/m3	5.1	2.5	1.92		02/16/20 20:19	91-20-3	
2-Propanol	**7.6**	ug/m3	4.8	1.3	1.92		02/16/20 20:19	67-63-0	
Propylene	**<0.27**	ug/m3	0.67	0.27	1.92		02/16/20 20:19	115-07-1	
Styrene	**0.88J**	ug/m3	1.7	0.66	1.92		02/16/20 20:19	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.59**	ug/m3	1.3	0.59	1.92		02/16/20 20:19	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

Sample: SS-13 **Lab ID: 10508418003** Collected: 02/11/20 08:56 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**5.1**	ug/m3	1.3	0.60	1.92		02/16/20 20:19	127-18-4	
Tetrahydrofuran	**3.9**	ug/m3	1.2	0.50	1.92		02/16/20 20:19	109-99-9	
Toluene	**7.3**	ug/m3	1.5	0.67	1.92		02/16/20 20:19	108-88-3	
1,2,4-Trichlorobenzene	**<7.1**	ug/m3	14.5	7.1	1.92		02/16/20 20:19	120-82-1	
1,1,1-Trichloroethane	**<0.59**	ug/m3	2.1	0.59	1.92		02/16/20 20:19	71-55-6	
1,1,2-Trichloroethane	**<0.46**	ug/m3	1.1	0.46	1.92		02/16/20 20:19	79-00-5	
Trichloroethene	**<0.49**	ug/m3	1.0	0.49	1.92		02/16/20 20:19	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.2	0.70	1.92		02/16/20 20:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.1**	ug/m3	3.0	1.1	1.92		02/16/20 20:19	76-13-1	
1,2,4-Trimethylbenzene	**8.4**	ug/m3	1.9	0.87	1.92		02/16/20 20:19	95-63-6	
1,3,5-Trimethylbenzene	**3.3**	ug/m3	1.9	0.77	1.92		02/16/20 20:19	108-67-8	
Vinyl acetate	**<0.52**	ug/m3	1.4	0.52	1.92		02/16/20 20:19	108-05-4	
Vinyl chloride	**<0.24**	ug/m3	0.50	0.24	1.92		02/16/20 20:19	75-01-4	
m&p-Xylene	**7.5**	ug/m3	3.4	1.3	1.92		02/16/20 20:19	179601-23-1	
o-Xylene	**3.6**	ug/m3	1.7	0.66	1.92		02/16/20 20:19	95-47-6	

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

QC Batch: 660221 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10508418001, 10508418002, 10508418003

METHOD BLANK: 3543971 Matrix: Air
Associated Lab Samples: 10508418001, 10508418002, 10508418003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	02/16/20 09:59	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	02/16/20 09:59	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	02/16/20 09:59	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	02/16/20 09:59	
1,1-Dichloroethane	ug/m3	<0.22	0.82	02/16/20 09:59	
1,1-Dichloroethene	ug/m3	<0.27	0.81	02/16/20 09:59	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	02/16/20 09:59	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	02/16/20 09:59	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	02/16/20 09:59	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	02/16/20 09:59	
1,2-Dichloroethane	ug/m3	<0.15	0.41	02/16/20 09:59	
1,2-Dichloropropane	ug/m3	<0.23	0.94	02/16/20 09:59	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	02/16/20 09:59	
1,3-Butadiene	ug/m3	<0.13	0.45	02/16/20 09:59	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	02/16/20 09:59	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	02/16/20 09:59	
2-Butanone (MEK)	ug/m3	<0.37	3.0	02/16/20 09:59	
2-Hexanone	ug/m3	<0.74	4.2	02/16/20 09:59	
2-Propanol	ug/m3	<0.70	2.5	02/16/20 09:59	
4-Ethyltoluene	ug/m3	<0.57	2.5	02/16/20 09:59	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	02/16/20 09:59	
Acetone	ug/m3	<1.2	2.4	02/16/20 09:59	
Benzene	ug/m3	<0.15	0.32	02/16/20 09:59	
Benzyl chloride	ug/m3	<1.2	2.6	02/16/20 09:59	
Bromodichloromethane	ug/m3	<0.37	1.4	02/16/20 09:59	
Bromoform	ug/m3	<1.4	5.2	02/16/20 09:59	
Bromomethane	ug/m3	<0.23	0.79	02/16/20 09:59	
Carbon disulfide	ug/m3	<0.22	0.63	02/16/20 09:59	
Carbon tetrachloride	ug/m3	<0.43	1.3	02/16/20 09:59	
Chlorobenzene	ug/m3	<0.28	0.94	02/16/20 09:59	
Chloroethane	ug/m3	<0.26	0.54	02/16/20 09:59	
Chloroform	ug/m3	<0.20	0.50	02/16/20 09:59	
Chloromethane	ug/m3	<0.16	0.42	02/16/20 09:59	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	02/16/20 09:59	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	02/16/20 09:59	
Cyclohexane	ug/m3	<0.35	1.8	02/16/20 09:59	
Dibromochloromethane	ug/m3	<0.72	1.7	02/16/20 09:59	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	02/16/20 09:59	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	02/16/20 09:59	
Ethanol	ug/m3	<0.81	4.8	02/16/20 09:59	SS
Ethyl acetate	ug/m3	<0.19	0.73	02/16/20 09:59	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

METHOD BLANK: 3543971 Matrix: Air
Associated Lab Samples: 10508418001, 10508418002, 10508418003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	02/16/20 09:59	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	02/16/20 09:59	
m&p-Xylene	ug/m3	<0.70	1.8	02/16/20 09:59	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	02/16/20 09:59	
Methylene Chloride	ug/m3	<1.2	3.5	02/16/20 09:59	
n-Heptane	ug/m3	<0.38	0.83	02/16/20 09:59	
n-Hexane	ug/m3	<0.31	0.72	02/16/20 09:59	
Naphthalene	ug/m3	<1.3	2.7	02/16/20 09:59	
o-Xylene	ug/m3	<0.34	0.88	02/16/20 09:59	
Propylene	ug/m3	<0.14	0.35	02/16/20 09:59	
Styrene	ug/m3	<0.34	0.87	02/16/20 09:59	
Tetrachloroethene	ug/m3	<0.31	0.69	02/16/20 09:59	
Tetrahydrofuran	ug/m3	<0.26	0.60	02/16/20 09:59	
Toluene	ug/m3	<0.35	0.77	02/16/20 09:59	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	02/16/20 09:59	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	02/16/20 09:59	
Trichloroethene	ug/m3	<0.25	0.55	02/16/20 09:59	
Trichlorofluoromethane	ug/m3	<0.37	1.1	02/16/20 09:59	
Vinyl acetate	ug/m3	<0.27	0.72	02/16/20 09:59	
Vinyl chloride	ug/m3	<0.13	0.26	02/16/20 09:59	

LABORATORY CONTROL SAMPLE: 3543972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	57.2	100	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	73.0	102	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	58.6	102	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	73.8	92	70-130	
1,1-Dichloroethane	ug/m3	42.7	42.2	99	70-130	
1,1-Dichloroethene	ug/m3	41.4	39.4	95	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	180	116	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	43.8	85	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	84.4	105	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	65.9	105	70-136	
1,2-Dichloroethane	ug/m3	42.4	42.9	101	70-130	
1,2-Dichloropropane	ug/m3	48.6	48.0	99	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	42.7	83	70-136	
1,3-Butadiene	ug/m3	23.3	22.9	98	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	66.6	105	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	64.6	102	70-145	
2-Butanone (MEK)	ug/m3	31.4	31.7	101	61-130	
2-Hexanone	ug/m3	42.8	41.6	97	70-138	
2-Propanol	ug/m3	119	117	98	70-136	
4-Ethyltoluene	ug/m3	52.4	53.2	101	70-142	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

LABORATORY CONTROL SAMPLE: 3543972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	43.7	100	70-134	
Acetone	ug/m3	126	98.3	78	59-137	
Benzene	ug/m3	33.5	31.1	93	70-133	
Benzyl chloride	ug/m3	55.1	57.6	105	70-139	
Bromodichloromethane	ug/m3	71.5	74.2	104	70-130	
Bromoform	ug/m3	110	117	106	60-140	
Bromomethane	ug/m3	41.3	36.6	89	70-131	
Carbon disulfide	ug/m3	33.3	33.1	99	70-130	
Carbon tetrachloride	ug/m3	66.2	70.0	106	70-133	
Chlorobenzene	ug/m3	48.3	48.6	101	70-131	
Chloroethane	ug/m3	28.1	27.6	98	70-141	
Chloroform	ug/m3	51.1	50.6	99	70-130	
Chloromethane	ug/m3	21.9	21.2	97	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	43.2	104	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	48.9	103	70-138	
Cyclohexane	ug/m3	36.7	32.4	88	70-133	
Dibromochloromethane	ug/m3	90.7	104	114	70-139	
Dichlorodifluoromethane	ug/m3	51.6	50.2	97	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	70.6	97	65-133	
Ethanol	ug/m3	103	80.0	78	65-135	SS
Ethyl acetate	ug/m3	38.6	37.9	98	70-135	
Ethylbenzene	ug/m3	45.6	39.7	87	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	139	124	70-134	
m&p-Xylene	ug/m3	91.2	77.0	84	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	37.7	98	70-131	
Methylene Chloride	ug/m3	182	173	95	69-130	
n-Heptane	ug/m3	43.6	39.9	92	70-130	
n-Hexane	ug/m3	37.6	34.5	92	70-131	
Naphthalene	ug/m3	57.7	58.9	102	63-130	
o-Xylene	ug/m3	45.5	48.9	108	70-135	
Propylene	ug/m3	18.2	17.5	96	63-139	
Styrene	ug/m3	44.9	47.4	106	70-143	
Tetrachloroethene	ug/m3	71	70.7	100	70-136	
Tetrahydrofuran	ug/m3	31.5	33.7	107	70-137	
Toluene	ug/m3	39.5	35.4	90	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	42.1	100	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	48.4	102	70-139	
Trichloroethene	ug/m3	56.3	54.9	97	70-132	
Trichlorofluoromethane	ug/m3	59.7	55.7	93	65-136	
Vinyl acetate	ug/m3	34.5	34.1	99	66-140	
Vinyl chloride	ug/m3	26.7	25.7	96	68-141	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

SAMPLE DUPLICATE: 3544218

Parameter	Units	10508414001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.52	<0.52		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.52	<0.52		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.95	<0.95		25	
1,1-Dichloroethane	ug/m3	<0.38	<0.38		25	
1,1-Dichloroethene	ug/m3	<0.46	<0.46		25	
1,2,4-Trichlorobenzene	ug/m3	<6.2	<6.2		25	
1,2,4-Trimethylbenzene	ug/m3	2.0	2.1	4	25	
1,2-Dibromoethane (EDB)	ug/m3	<0.61	<0.61		25	
1,2-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,2-Dichloroethane	ug/m3	<0.25	<0.25		25	
1,2-Dichloropropane	ug/m3	<0.39	<0.39		25	
1,3,5-Trimethylbenzene	ug/m3	1.0J	1.1J		25	
1,3-Butadiene	ug/m3	<0.22	<0.22		25	
1,3-Dichlorobenzene	ug/m3	<0.98	<0.98		25	
1,4-Dichlorobenzene	ug/m3	18.4	18.8	2	25	
2-Butanone (MEK)	ug/m3	16.2	15.8	3	25	
2-Hexanone	ug/m3	<1.3	<1.3		25	
2-Propanol	ug/m3	4.2	4.3	1	25	
4-Ethyltoluene	ug/m3	<0.96	<0.96		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.87	<0.87		25	
Acetone	ug/m3	26.8	25.7	4	25	
Benzene	ug/m3	1.1	1.1	2	25	
Benzyl chloride	ug/m3	<2.0	<2.0		25	
Bromodichloromethane	ug/m3	<0.61	<0.61		25	
Bromoform	ug/m3	<2.4	<2.4		25	
Bromomethane	ug/m3	<0.38	<0.38		25	
Carbon disulfide	ug/m3	<0.37	<0.37		25	
Carbon tetrachloride	ug/m3	<0.72	<0.72		25	
Chlorobenzene	ug/m3	<0.46	<0.46		25	
Chloroethane	ug/m3	<0.44	<0.44		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	0.92	0.83	9	25	
cis-1,2-Dichloroethene	ug/m3	<0.37	<0.37		25	
cis-1,3-Dichloropropene	ug/m3	<0.51	<0.51		25	
Cyclohexane	ug/m3	<0.59	<0.59		25	
Dibromochloromethane	ug/m3	<1.2	<1.2		25	
Dichlorodifluoromethane	ug/m3	2.7	2.6	3	25	
Dichlorotetrafluoroethane	ug/m3	<0.73	<0.73		25	
Ethanol	ug/m3	181	170	6	25	SS
Ethyl acetate	ug/m3	1.7	1.7	0	25	
Ethylbenzene	ug/m3	1.5	1.6	4	25	
Hexachloro-1,3-butadiene	ug/m3	<3.3	<3.3		25	
m&p-Xylene	ug/m3	4.8	4.8	1	25	
Methyl-tert-butyl ether	ug/m3	<1.1	<1.1		25	
Methylene Chloride	ug/m3	15.7	15.1	4	25	
n-Heptane	ug/m3	1.4J	<0.64		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

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

SAMPLE DUPLICATE: 3544218

Parameter	Units	10508414001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	1.9	2.0	8	25	
Naphthalene	ug/m3	<2.2	<2.2		25	
o-Xylene	ug/m3	1.2J	1.3J		25	
Propylene	ug/m3	<0.24	<0.24		25	
Styrene	ug/m3	12.7	13.0	2	25	
Tetrachloroethene	ug/m3	16.8	17.1	1	25	
Tetrahydrofuran	ug/m3	<0.44	<0.44		25	
Toluene	ug/m3	170	169	1	25	
trans-1,2-Dichloroethene	ug/m3	<0.48	<0.48		25	
trans-1,3-Dichloropropene	ug/m3	<0.74	<0.74		25	
Trichloroethene	ug/m3	1.5	1.4	5	25	
Trichlorofluoromethane	ug/m3	1.4J	1.3J		25	
Vinyl acetate	ug/m3	<0.45	<0.45		25	
Vinyl chloride	ug/m3	<0.21	<0.21		25	

SAMPLE DUPLICATE: 3544219

Parameter	Units	10508414002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.52	<0.52		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.52	<0.52		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.95	<0.95		25	
1,1-Dichloroethane	ug/m3	<0.38	<0.38		25	
1,1-Dichloroethene	ug/m3	<0.46	<0.46		25	
1,2,4-Trichlorobenzene	ug/m3	<6.2	<6.2		25	
1,2,4-Trimethylbenzene	ug/m3	2.2	2.2	1	25	
1,2-Dibromoethane (EDB)	ug/m3	<0.61	<0.61		25	
1,2-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,2-Dichloroethane	ug/m3	<0.25	<0.25		25	
1,2-Dichloropropane	ug/m3	<0.39	<0.39		25	
1,3,5-Trimethylbenzene	ug/m3	1.1J	1.1J		25	
1,3-Butadiene	ug/m3	<0.22	<0.22		25	
1,3-Dichlorobenzene	ug/m3	<0.98	<0.98		25	
1,4-Dichlorobenzene	ug/m3	19.1	18.8	1	25	
2-Butanone (MEK)	ug/m3	17.6	17.3	1	25	
2-Hexanone	ug/m3	<1.3	<1.3		25	
2-Propanol	ug/m3	5.0	5.2	3	25	
4-Ethyltoluene	ug/m3	<0.96	<0.96		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.87	<0.87		25	
Acetone	ug/m3	26.9	27.2	1	25	
Benzene	ug/m3	1.2	1.2	2	25	
Benzyl chloride	ug/m3	<2.0	<2.0		25	
Bromodichloromethane	ug/m3	<0.61	<0.61		25	
Bromoform	ug/m3	<2.4	<2.4		25	
Bromomethane	ug/m3	<0.38	<0.38		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

SAMPLE DUPLICATE: 3544219

Parameter	Units	10508414002 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	<0.37	<0.37		25	
Carbon tetrachloride	ug/m3	<0.72	<0.72		25	
Chlorobenzene	ug/m3	<0.46	<0.46		25	
Chloroethane	ug/m3	<0.44	<0.44		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	0.87	0.92	5	25	
cis-1,2-Dichloroethene	ug/m3	<0.37	<0.37		25	
cis-1,3-Dichloropropene	ug/m3	<0.51	<0.51		25	
Cyclohexane	ug/m3	<0.59	1.0J		25	
Dibromochloromethane	ug/m3	<1.2	<1.2		25	
Dichlorodifluoromethane	ug/m3	2.5	2.6	4	25	
Dichlorotetrafluoroethane	ug/m3	<0.73	<0.73		25	
Ethanol	ug/m3	207	213	3	25	SS
Ethyl acetate	ug/m3	1.8	1.7	5	25	
Ethylbenzene	ug/m3	1.6	1.6	1	25	
Hexachloro-1,3-butadiene	ug/m3	<3.3	<3.3		25	
m&p-Xylene	ug/m3	5.2	5.3	2	25	
Methyl-tert-butyl ether	ug/m3	<1.1	<1.1		25	
Methylene Chloride	ug/m3	15.1	15.0	0	25	
n-Heptane	ug/m3	<0.64	<0.64		25	
n-Hexane	ug/m3	2.2	2.2	4	25	
Naphthalene	ug/m3	<2.2	<2.2		25	
o-Xylene	ug/m3	1.4J	1.4J		25	
Propylene	ug/m3	<0.24	<0.24		25	
Styrene	ug/m3	20.3	20.8	2	25	
Tetrachloroethene	ug/m3	13.1	13.1	0	25	
Tetrahydrofuran	ug/m3	0.57J	0.56J		25	
Toluene	ug/m3	177	181	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.48	<0.48		25	
trans-1,3-Dichloropropene	ug/m3	<0.74	<0.74		25	
Trichloroethene	ug/m3	1.5	1.5	0	25	
Trichlorofluoromethane	ug/m3	1.3J	1.4J		25	
Vinyl acetate	ug/m3	<0.45	<0.45		25	
Vinyl chloride	ug/m3	<0.21	<0.21		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508418

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10508418001	**SS-11**	TO-15	660221		
10508418002	**SS-12**	TO-15	660221		
10508418003	**SS-13**	TO-15	660221		

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AIR: CHAIN-OF-C

The Chain-of-Custody is a LEGAL DOCI

WO# : 10508418

10508418

39739

Page: 1 of 1

Section A Required Client Information:

Company: KEY ENGINEERING GROUP
Address: 135 N. WATER ST, #510
MILW. WI 53202
Email To: TSchoen@keyengineering.com
Phone: 414-225-0594 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Key Engineering
Copy To:
Purchase Order No.: 208409
Project Name: Schaefer Brush
Project Number: 1604-1204-0002

Section C Invoice Information:

Attention: Toni Schoen
Company Name: Key Engineering
Address:
Pace Quote Reference: 00071744
Pace Project Manager/Sales Rep.
Pace Profile #: 34194

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: µg/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	SS-11	6LC		2/11/20	8:22	2/11	8:52	-31	-9	713	1114					X					001
2	SS-12	↓		↓	8:32	↓	9:02	-30	-8	1538	1684					↓					002
3	SS-13	↓		↓	8:26	↓	8:56	-29	-8	531	1635					↓					003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] KEY	2/11	17:00	[signature] RHE	2/13/20	1115

SAMPLE CONDITIONS

—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jason Wiersch

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 2-12-20

ORIGINAL

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Nov2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.20	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt

Client Name: Key Eng.

Project #: **WO#: 10508418**

PM: KNH **Due Date: 02/20/20**

CLIENT: Key Eng.

Courier: ☒Fed Ex ☐UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial See Exception ☐

Tracking Number: 1083 0284 6720

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

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

Temp. (TO17 and TO13 samples only) (°C): — Corrected Temp (°C): —

Thermometer Used: ☐G87A9170600254 ☐G87A9155100842

Temp should be above freezing to 6°C Correction Factor: —

Date & Initials of Person Examining Contents: 2-13-20 MT

Type of ice Received ☐Blue ☐Wet ☒None

Comments:

Chain of Custody Present?	☒Yes ☐No	1.
Chain of Custody Filled Out?	☒Yes ☐No	2.
Chain of Custody Relinquished?	☒Yes ☐No	3.
Sampler Name and/or Signature on COC?	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time?	☒Yes ☐No	5.
Short Hold Time Analysis (<72 hr)?	☐Yes ☒No	6.
Rush Turn Around Time Requested?	☐Yes ☒No	7.
Sufficient Volume?	☒Yes ☐No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	☒Yes ☐No ☒Yes ☐No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒Yes ☐No	10.
Media: Air Can Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒Yes ☐No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒Yes ☐No	13.

Gauge # ☒10AIR26 ☐10AIR34 ☐10AIR35 ☐4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
SS - 11	0713	1114	-9.5	-5					
" 12	1525	1684	-9	-5					
" 13	0531	1675	-9	-5					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kristen Hoffberg **Date:** 2/14/2020

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)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

February 17, 2020

Toni Schoen
Key Engineering
735 N. Water St.
Milwaukee, WI 53202

RE: Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

Dear Toni Schoen:
Enclosed are the analytical results for sample(s) received by the laboratory on February 13, 2020. 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,

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

Enclosures

cc: Valerie Collins, Key Engineering Milwaukee

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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SAMPLE SUMMARY

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10508419001	**IAO-1**	Air	02/11/20 15:51	02/13/20 11:15
10508419002	**IAO-2**	Air	02/11/20 15:52	02/13/20 11:15
10508419003	**IAB-1**	Air	02/11/20 13:45	02/13/20 11:15

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SAMPLE ANALYTE COUNT

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10508419001	**IAO-1**	TO-15	MG2	61	PASI-M
10508419002	**IAO-2**	TO-15	MG2	61	PASI-M
10508419003	**IAB-1**	TO-15	MG2	61	PASI-M

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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10508419001	**IAO-1**					
TO-15	Acetone	63.8	ug/m3	4.0	02/14/20 19:28	
TO-15	Benzene	0.73	ug/m3	0.55	02/14/20 19:28	
TO-15	2-Butanone (MEK)	8.7	ug/m3	5.0	02/14/20 19:28	
TO-15	Chloromethane	0.87	ug/m3	0.71	02/14/20 19:28	
TO-15	1,4-Dichlorobenzene	195	ug/m3	5.1	02/14/20 19:28	
TO-15	Dichlorodifluoromethane	5.2	ug/m3	1.7	02/14/20 19:28	
TO-15	Ethanol	116	ug/m3	8.0	02/14/20 19:28	SS
TO-15	Ethyl acetate	0.88J	ug/m3	1.2	02/14/20 19:28	
TO-15	Ethylbenzene	1.1J	ug/m3	1.5	02/14/20 19:28	
TO-15	n-Heptane	0.86J	ug/m3	1.4	02/14/20 19:28	
TO-15	n-Hexane	0.93J	ug/m3	1.2	02/14/20 19:28	
TO-15	Methylene Chloride	11.4	ug/m3	5.9	02/14/20 19:28	
TO-15	2-Propanol	12.4	ug/m3	4.2	02/14/20 19:28	
TO-15	Styrene	1.5	ug/m3	1.5	02/14/20 19:28	
TO-15	Tetrachloroethene	3.3	ug/m3	1.2	02/14/20 19:28	
TO-15	Toluene	71.6	ug/m3	1.3	02/14/20 19:28	
TO-15	Trichloroethene	0.86J	ug/m3	0.92	02/14/20 19:28	
TO-15	Trichlorofluoromethane	1.3J	ug/m3	1.9	02/14/20 19:28	
TO-15	1,2,4-Trimethylbenzene	2.0	ug/m3	1.7	02/14/20 19:28	
TO-15	1,3,5-Trimethylbenzene	1.0J	ug/m3	1.7	02/14/20 19:28	
TO-15	m&p-Xylene	3.1	ug/m3	3.0	02/14/20 19:28	
10508419002	**IAO-2**					
TO-15	Acetone	51.5	ug/m3	4.2	02/14/20 19:58	
TO-15	Benzene	0.66	ug/m3	0.57	02/14/20 19:58	
TO-15	2-Butanone (MEK)	6.5	ug/m3	5.2	02/14/20 19:58	
TO-15	Chloromethane	1.0	ug/m3	0.74	02/14/20 19:58	
TO-15	1,4-Dichlorobenzene	172	ug/m3	5.4	02/14/20 19:58	
TO-15	Dichlorodifluoromethane	4.6	ug/m3	1.8	02/14/20 19:58	
TO-15	Ethanol	134	ug/m3	8.4	02/14/20 19:58	SS
TO-15	Ethyl acetate	1.4	ug/m3	1.3	02/14/20 19:58	
TO-15	Ethylbenzene	0.89J	ug/m3	1.5	02/14/20 19:58	
TO-15	n-Heptane	1.0J	ug/m3	1.5	02/14/20 19:58	
TO-15	n-Hexane	0.88J	ug/m3	1.3	02/14/20 19:58	
TO-15	Methylene Chloride	8.0	ug/m3	6.2	02/14/20 19:58	
TO-15	2-Propanol	9.0	ug/m3	4.4	02/14/20 19:58	
TO-15	Styrene	2.0	ug/m3	1.5	02/14/20 19:58	
TO-15	Tetrachloroethene	2.4	ug/m3	1.2	02/14/20 19:58	
TO-15	Toluene	51.0	ug/m3	1.3	02/14/20 19:58	
TO-15	Trichloroethene	0.52J	ug/m3	0.96	02/14/20 19:58	
TO-15	Trichlorofluoromethane	1.4J	ug/m3	2.0	02/14/20 19:58	
TO-15	1,2,4-Trimethylbenzene	1.7J	ug/m3	1.7	02/14/20 19:58	
TO-15	1,3,5-Trimethylbenzene	0.99J	ug/m3	1.7	02/14/20 19:58	
TO-15	m&p-Xylene	2.5J	ug/m3	3.1	02/14/20 19:58	
10508419003	**IAB-1**					
TO-15	Acetone	89.7	ug/m3	4.2	02/14/20 20:28	
TO-15	Benzene	0.75	ug/m3	0.57	02/14/20 20:28	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10508419003	**IAB-1**					
TO-15	2-Butanone (MEK)	24.2	ug/m3	5.2	02/14/20 20:28	
TO-15	Chloromethane	0.88	ug/m3	0.74	02/14/20 20:28	
TO-15	1,4-Dichlorobenzene	194	ug/m3	5.4	02/14/20 20:28	
TO-15	Dichlorodifluoromethane	3.8	ug/m3	1.8	02/14/20 20:28	
TO-15	Ethanol	97.3	ug/m3	8.4	02/14/20 20:28	SS
TO-15	Ethyl acetate	1.5	ug/m3	1.3	02/14/20 20:28	
TO-15	Ethylbenzene	1.4J	ug/m3	1.5	02/14/20 20:28	
TO-15	n-Heptane	2.1	ug/m3	1.5	02/14/20 20:28	
TO-15	n-Hexane	1.2J	ug/m3	1.3	02/14/20 20:28	
TO-15	Methylene Chloride	14.9	ug/m3	6.2	02/14/20 20:28	
TO-15	2-Propanol	8.5	ug/m3	4.4	02/14/20 20:28	
TO-15	Styrene	1.5	ug/m3	1.5	02/14/20 20:28	
TO-15	Tetrachloroethene	9.2	ug/m3	1.2	02/14/20 20:28	
TO-15	Toluene	145	ug/m3	1.3	02/14/20 20:28	
TO-15	Trichloroethene	1.3	ug/m3	0.96	02/14/20 20:28	
TO-15	Trichlorofluoromethane	1.4J	ug/m3	2.0	02/14/20 20:28	
TO-15	1,2,4-Trimethylbenzene	3.2	ug/m3	1.7	02/14/20 20:28	
TO-15	1,3,5-Trimethylbenzene	1.3J	ug/m3	1.7	02/14/20 20:28	
TO-15	m&p-Xylene	3.9	ug/m3	3.1	02/14/20 20:28	
TO-15	o-Xylene	0.72J	ug/m3	1.5	02/14/20 20:28	

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

Sample: IAO-1 **Lab ID: 10508419001** Collected: 02/11/20 15:51 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**63.8**	ug/m3	4.0	2.0	1.68		02/14/20 19:28	67-64-1	
Benzene	**0.73**	ug/m3	0.55	0.26	1.68		02/14/20 19:28	71-43-2	
Benzyl chloride	**<2.0**	ug/m3	4.4	2.0	1.68		02/14/20 19:28	100-44-7	
Bromodichloromethane	**<0.61**	ug/m3	2.3	0.61	1.68		02/14/20 19:28	75-27-4	
Bromoform	**<2.4**	ug/m3	8.8	2.4	1.68		02/14/20 19:28	75-25-2	
Bromomethane	**<0.38**	ug/m3	1.3	0.38	1.68		02/14/20 19:28	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.76	0.22	1.68		02/14/20 19:28	106-99-0	
2-Butanone (MEK)	**8.7**	ug/m3	5.0	0.62	1.68		02/14/20 19:28	78-93-3	
Carbon disulfide	**<0.37**	ug/m3	1.1	0.37	1.68		02/14/20 19:28	75-15-0	
Carbon tetrachloride	**<0.72**	ug/m3	2.2	0.72	1.68		02/14/20 19:28	56-23-5	
Chlorobenzene	**<0.46**	ug/m3	1.6	0.46	1.68		02/14/20 19:28	108-90-7	
Chloroethane	**<0.44**	ug/m3	0.90	0.44	1.68		02/14/20 19:28	75-00-3	
Chloroform	**<0.33**	ug/m3	0.83	0.33	1.68		02/14/20 19:28	67-66-3	
Chloromethane	**0.87**	ug/m3	0.71	0.26	1.68		02/14/20 19:28	74-87-3	
Cyclohexane	**<0.59**	ug/m3	2.9	0.59	1.68		02/14/20 19:28	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	2.9	1.2	1.68		02/14/20 19:28	124-48-1	
1,2-Dibromoethane (EDB)	**<0.61**	ug/m3	1.3	0.61	1.68		02/14/20 19:28	106-93-4	
1,2-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		02/14/20 19:28	95-50-1	
1,3-Dichlorobenzene	**<0.98**	ug/m3	2.0	0.98	1.68		02/14/20 19:28	541-73-1	
1,4-Dichlorobenzene	**195**	ug/m3	5.1	1.7	1.68		02/14/20 19:28	106-46-7	
Dichlorodifluoromethane	**5.2**	ug/m3	1.7	0.49	1.68		02/14/20 19:28	75-71-8	
1,1-Dichloroethane	**<0.38**	ug/m3	1.4	0.38	1.68		02/14/20 19:28	75-34-3	
1,2-Dichloroethane	**<0.25**	ug/m3	0.69	0.25	1.68		02/14/20 19:28	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.4	0.46	1.68		02/14/20 19:28	75-35-4	
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.4	0.37	1.68		02/14/20 19:28	156-59-2	
trans-1,2-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.68		02/14/20 19:28	156-60-5	
1,2-Dichloropropane	**<0.39**	ug/m3	1.6	0.39	1.68		02/14/20 19:28	78-87-5	
cis-1,3-Dichloropropene	**<0.51**	ug/m3	1.6	0.51	1.68		02/14/20 19:28	10061-01-5	
trans-1,3-Dichloropropene	**<0.74**	ug/m3	1.6	0.74	1.68		02/14/20 19:28	10061-02-6	
Dichlorotetrafluoroethane	**<0.73**	ug/m3	2.4	0.73	1.68		02/14/20 19:28	76-14-2	
Ethanol	**116**	ug/m3	8.0	1.4	1.68		02/14/20 19:28	64-17-5	SS
Ethyl acetate	**0.88J**	ug/m3	1.2	0.32	1.68		02/14/20 19:28	141-78-6	
Ethylbenzene	**1.1J**	ug/m3	1.5	0.51	1.68		02/14/20 19:28	100-41-4	
4-Ethyltoluene	**<0.96**	ug/m3	4.2	0.96	1.68		02/14/20 19:28	622-96-8	
n-Heptane	**0.86J**	ug/m3	1.4	0.64	1.68		02/14/20 19:28	142-82-5	
Hexachloro-1,3-butadiene	**<3.3**	ug/m3	9.1	3.3	1.68		02/14/20 19:28	87-68-3	
n-Hexane	**0.93J**	ug/m3	1.2	0.52	1.68		02/14/20 19:28	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.0	1.3	1.68		02/14/20 19:28	591-78-6	
Methylene Chloride	**11.4**	ug/m3	5.9	2.0	1.68		02/14/20 19:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.87**	ug/m3	7.0	0.87	1.68		02/14/20 19:28	108-10-1	
Methyl-tert-butyl ether	**<1.1**	ug/m3	6.1	1.1	1.68		02/14/20 19:28	1634-04-4	
Naphthalene	**<2.2**	ug/m3	4.5	2.2	1.68		02/14/20 19:28	91-20-3	
2-Propanol	**12.4**	ug/m3	4.2	1.2	1.68		02/14/20 19:28	67-63-0	
Propylene	**<0.24**	ug/m3	0.59	0.24	1.68		02/14/20 19:28	115-07-1	
Styrene	**1.5**	ug/m3	1.5	0.58	1.68		02/14/20 19:28	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.52**	ug/m3	1.2	0.52	1.68		02/14/20 19:28	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

Sample: IAO-1 **Lab ID: 10508419001** Collected: 02/11/20 15:51 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**3.3**	ug/m3	1.2	0.53	1.68		02/14/20 19:28	127-18-4	
Tetrahydrofuran	**<0.44**	ug/m3	1.0	0.44	1.68		02/14/20 19:28	109-99-9	
Toluene	**71.6**	ug/m3	1.3	0.59	1.68		02/14/20 19:28	108-88-3	
1,2,4-Trichlorobenzene	**<6.2**	ug/m3	12.7	6.2	1.68		02/14/20 19:28	120-82-1	
1,1,1-Trichloroethane	**<0.52**	ug/m3	1.9	0.52	1.68		02/14/20 19:28	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.93	0.41	1.68		02/14/20 19:28	79-00-5	
Trichloroethene	**0.86J**	ug/m3	0.92	0.43	1.68		02/14/20 19:28	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	1.9	0.61	1.68		02/14/20 19:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.95**	ug/m3	2.6	0.95	1.68		02/14/20 19:28	76-13-1	
1,2,4-Trimethylbenzene	**2.0**	ug/m3	1.7	0.76	1.68		02/14/20 19:28	95-63-6	
1,3,5-Trimethylbenzene	**1.0J**	ug/m3	1.7	0.67	1.68		02/14/20 19:28	108-67-8	
Vinyl acetate	**<0.45**	ug/m3	1.2	0.45	1.68		02/14/20 19:28	108-05-4	
Vinyl chloride	**<0.21**	ug/m3	0.44	0.21	1.68		02/14/20 19:28	75-01-4	
m&p-Xylene	**3.1**	ug/m3	3.0	1.2	1.68		02/14/20 19:28	179601-23-1	
o-Xylene	**<0.58**	ug/m3	1.5	0.58	1.68		02/14/20 19:28	95-47-6	

Sample: IAO-2 **Lab ID: 10508419002** Collected: 02/11/20 15:52 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**51.5**	ug/m3	4.2	2.1	1.75		02/14/20 19:58	67-64-1	
Benzene	**0.66**	ug/m3	0.57	0.27	1.75		02/14/20 19:58	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.6	2.1	1.75		02/14/20 19:58	100-44-7	
Bromodichloromethane	**<0.64**	ug/m3	2.4	0.64	1.75		02/14/20 19:58	75-27-4	
Bromoform	**<2.5**	ug/m3	9.2	2.5	1.75		02/14/20 19:58	75-25-2	
Bromomethane	**<0.40**	ug/m3	1.4	0.40	1.75		02/14/20 19:58	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.79	0.22	1.75		02/14/20 19:58	106-99-0	
2-Butanone (MEK)	**6.5**	ug/m3	5.2	0.65	1.75		02/14/20 19:58	78-93-3	
Carbon disulfide	**<0.38**	ug/m3	1.1	0.38	1.75		02/14/20 19:58	75-15-0	
Carbon tetrachloride	**<0.75**	ug/m3	2.2	0.75	1.75		02/14/20 19:58	56-23-5	
Chlorobenzene	**<0.48**	ug/m3	1.6	0.48	1.75		02/14/20 19:58	108-90-7	
Chloroethane	**<0.46**	ug/m3	0.94	0.46	1.75		02/14/20 19:58	75-00-3	
Chloroform	**<0.34**	ug/m3	0.87	0.34	1.75		02/14/20 19:58	67-66-3	
Chloromethane	**1.0**	ug/m3	0.74	0.27	1.75		02/14/20 19:58	74-87-3	
Cyclohexane	**<0.62**	ug/m3	3.1	0.62	1.75		02/14/20 19:58	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.0	1.3	1.75		02/14/20 19:58	124-48-1	
1,2-Dibromoethane (EDB)	**<0.64**	ug/m3	1.4	0.64	1.75		02/14/20 19:58	106-93-4	
1,2-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		02/14/20 19:58	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.1	1.0	1.75		02/14/20 19:58	541-73-1	
1,4-Dichlorobenzene	**172**	ug/m3	5.4	1.8	1.75		02/14/20 19:58	106-46-7	
Dichlorodifluoromethane	**4.6**	ug/m3	1.8	0.51	1.75		02/14/20 19:58	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/m3	1.4	0.39	1.75		02/14/20 19:58	75-34-3	
1,2-Dichloroethane	**<0.26**	ug/m3	0.72	0.26	1.75		02/14/20 19:58	107-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

Sample: IAO-2 **Lab ID: 10508419002** Collected: 02/11/20 15:52 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.75		02/14/20 19:58	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.4	0.38	1.75		02/14/20 19:58	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/m3	1.4	0.50	1.75		02/14/20 19:58	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.6	0.40	1.75		02/14/20 19:58	78-87-5	
cis-1,3-Dichloropropene	**<0.53**	ug/m3	1.6	0.53	1.75		02/14/20 19:58	10061-01-5	
trans-1,3-Dichloropropene	**<0.77**	ug/m3	1.6	0.77	1.75		02/14/20 19:58	10061-02-6	
Dichlorotetrafluoroethane	**<0.76**	ug/m3	2.5	0.76	1.75		02/14/20 19:58	76-14-2	
Ethanol	**134**	ug/m3	8.4	1.4	1.75		02/14/20 19:58	64-17-5	SS
Ethyl acetate	**1.4**	ug/m3	1.3	0.33	1.75		02/14/20 19:58	141-78-6	
Ethylbenzene	**0.89J**	ug/m3	1.5	0.53	1.75		02/14/20 19:58	100-41-4	
4-Ethyltoluene	**<1.0**	ug/m3	4.4	1.0	1.75		02/14/20 19:58	622-96-8	
n-Heptane	**1.0J**	ug/m3	1.5	0.66	1.75		02/14/20 19:58	142-82-5	
Hexachloro-1,3-butadiene	**<3.4**	ug/m3	9.5	3.4	1.75		02/14/20 19:58	87-68-3	
n-Hexane	**0.88J**	ug/m3	1.3	0.54	1.75		02/14/20 19:58	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.3	1.3	1.75		02/14/20 19:58	591-78-6	
Methylene Chloride	**8.0**	ug/m3	6.2	2.1	1.75		02/14/20 19:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.91**	ug/m3	7.3	0.91	1.75		02/14/20 19:58	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.4	1.2	1.75		02/14/20 19:58	1634-04-4	
Naphthalene	**<2.3**	ug/m3	4.7	2.3	1.75		02/14/20 19:58	91-20-3	
2-Propanol	**9.0**	ug/m3	4.4	1.2	1.75		02/14/20 19:58	67-63-0	
Propylene	**<0.24**	ug/m3	0.61	0.24	1.75		02/14/20 19:58	115-07-1	
Styrene	**2.0**	ug/m3	1.5	0.60	1.75		02/14/20 19:58	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.54**	ug/m3	1.2	0.54	1.75		02/14/20 19:58	79-34-5	
Tetrachloroethene	**2.4**	ug/m3	1.2	0.55	1.75		02/14/20 19:58	127-18-4	
Tetrahydrofuran	**<0.46**	ug/m3	1.0	0.46	1.75		02/14/20 19:58	109-99-9	
Toluene	**51.0**	ug/m3	1.3	0.61	1.75		02/14/20 19:58	108-88-3	
1,2,4-Trichlorobenzene	**<6.5**	ug/m3	13.2	6.5	1.75		02/14/20 19:58	120-82-1	
1,1,1-Trichloroethane	**<0.54**	ug/m3	1.9	0.54	1.75		02/14/20 19:58	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/m3	0.97	0.42	1.75		02/14/20 19:58	79-00-5	
Trichloroethene	**0.52J**	ug/m3	0.96	0.44	1.75		02/14/20 19:58	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.0	0.64	1.75		02/14/20 19:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.99**	ug/m3	2.7	0.99	1.75		02/14/20 19:58	76-13-1	
1,2,4-Trimethylbenzene	**1.7J**	ug/m3	1.7	0.79	1.75		02/14/20 19:58	95-63-6	
1,3,5-Trimethylbenzene	**0.99J**	ug/m3	1.7	0.70	1.75		02/14/20 19:58	108-67-8	
Vinyl acetate	**<0.47**	ug/m3	1.3	0.47	1.75		02/14/20 19:58	108-05-4	
Vinyl chloride	**<0.22**	ug/m3	0.46	0.22	1.75		02/14/20 19:58	75-01-4	
m&p-Xylene	**2.5J**	ug/m3	3.1	1.2	1.75		02/14/20 19:58	179601-23-1	
o-Xylene	**<0.60**	ug/m3	1.5	0.60	1.75		02/14/20 19:58	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

Sample: IAB-1 **Lab ID: 10508419003** Collected: 02/11/20 13:45 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**89.7**	ug/m3	4.2	2.1	1.75		02/14/20 20:28	67-64-1	
Benzene	**0.75**	ug/m3	0.57	0.27	1.75		02/14/20 20:28	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.6	2.1	1.75		02/14/20 20:28	100-44-7	
Bromodichloromethane	**<0.64**	ug/m3	2.4	0.64	1.75		02/14/20 20:28	75-27-4	
Bromoform	**<2.5**	ug/m3	9.2	2.5	1.75		02/14/20 20:28	75-25-2	
Bromomethane	**<0.40**	ug/m3	1.4	0.40	1.75		02/14/20 20:28	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.79	0.22	1.75		02/14/20 20:28	106-99-0	
2-Butanone (MEK)	**24.2**	ug/m3	5.2	0.65	1.75		02/14/20 20:28	78-93-3	
Carbon disulfide	**<0.38**	ug/m3	1.1	0.38	1.75		02/14/20 20:28	75-15-0	
Carbon tetrachloride	**<0.75**	ug/m3	2.2	0.75	1.75		02/14/20 20:28	56-23-5	
Chlorobenzene	**<0.48**	ug/m3	1.6	0.48	1.75		02/14/20 20:28	108-90-7	
Chloroethane	**<0.46**	ug/m3	0.94	0.46	1.75		02/14/20 20:28	75-00-3	
Chloroform	**<0.34**	ug/m3	0.87	0.34	1.75		02/14/20 20:28	67-66-3	
Chloromethane	**0.88**	ug/m3	0.74	0.27	1.75		02/14/20 20:28	74-87-3	
Cyclohexane	**<0.62**	ug/m3	3.1	0.62	1.75		02/14/20 20:28	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.0	1.3	1.75		02/14/20 20:28	124-48-1	
1,2-Dibromoethane (EDB)	**<0.64**	ug/m3	1.4	0.64	1.75		02/14/20 20:28	106-93-4	
1,2-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		02/14/20 20:28	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.1	1.0	1.75		02/14/20 20:28	541-73-1	
1,4-Dichlorobenzene	**194**	ug/m3	5.4	1.8	1.75		02/14/20 20:28	106-46-7	
Dichlorodifluoromethane	**3.8**	ug/m3	1.8	0.51	1.75		02/14/20 20:28	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/m3	1.4	0.39	1.75		02/14/20 20:28	75-34-3	
1,2-Dichloroethane	**<0.26**	ug/m3	0.72	0.26	1.75		02/14/20 20:28	107-06-2	
1,1-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.75		02/14/20 20:28	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.4	0.38	1.75		02/14/20 20:28	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/m3	1.4	0.50	1.75		02/14/20 20:28	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.6	0.40	1.75		02/14/20 20:28	78-87-5	
cis-1,3-Dichloropropene	**<0.53**	ug/m3	1.6	0.53	1.75		02/14/20 20:28	10061-01-5	
trans-1,3-Dichloropropene	**<0.77**	ug/m3	1.6	0.77	1.75		02/14/20 20:28	10061-02-6	
Dichlorotetrafluoroethane	**<0.76**	ug/m3	2.5	0.76	1.75		02/14/20 20:28	76-14-2	
Ethanol	**97.3**	ug/m3	8.4	1.4	1.75		02/14/20 20:28	64-17-5	SS
Ethyl acetate	**1.5**	ug/m3	1.3	0.33	1.75		02/14/20 20:28	141-78-6	
Ethylbenzene	**1.4J**	ug/m3	1.5	0.53	1.75		02/14/20 20:28	100-41-4	
4-Ethyltoluene	**<1.0**	ug/m3	4.4	1.0	1.75		02/14/20 20:28	622-96-8	
n-Heptane	**2.1**	ug/m3	1.5	0.66	1.75		02/14/20 20:28	142-82-5	
Hexachloro-1,3-butadiene	**<3.4**	ug/m3	9.5	3.4	1.75		02/14/20 20:28	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.3	0.54	1.75		02/14/20 20:28	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.3	1.3	1.75		02/14/20 20:28	591-78-6	
Methylene Chloride	**14.9**	ug/m3	6.2	2.1	1.75		02/14/20 20:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.91**	ug/m3	7.3	0.91	1.75		02/14/20 20:28	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.4	1.2	1.75		02/14/20 20:28	1634-04-4	
Naphthalene	**<2.3**	ug/m3	4.7	2.3	1.75		02/14/20 20:28	91-20-3	
2-Propanol	**8.5**	ug/m3	4.4	1.2	1.75		02/14/20 20:28	67-63-0	
Propylene	**<0.24**	ug/m3	0.61	0.24	1.75		02/14/20 20:28	115-07-1	
Styrene	**1.5**	ug/m3	1.5	0.60	1.75		02/14/20 20:28	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.54**	ug/m3	1.2	0.54	1.75		02/14/20 20:28	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

Sample: IAB-1 **Lab ID: 10508419003** Collected: 02/11/20 13:45 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**9.2**	ug/m3	1.2	0.55	1.75		02/14/20 20:28	127-18-4	
Tetrahydrofuran	**<0.46**	ug/m3	1.0	0.46	1.75		02/14/20 20:28	109-99-9	
Toluene	**145**	ug/m3	1.3	0.61	1.75		02/14/20 20:28	108-88-3	
1,2,4-Trichlorobenzene	**<6.5**	ug/m3	13.2	6.5	1.75		02/14/20 20:28	120-82-1	
1,1,1-Trichloroethane	**<0.54**	ug/m3	1.9	0.54	1.75		02/14/20 20:28	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/m3	0.97	0.42	1.75		02/14/20 20:28	79-00-5	
Trichloroethene	**1.3**	ug/m3	0.96	0.44	1.75		02/14/20 20:28	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.0	0.64	1.75		02/14/20 20:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.99**	ug/m3	2.7	0.99	1.75		02/14/20 20:28	76-13-1	
1,2,4-Trimethylbenzene	**3.2**	ug/m3	1.7	0.79	1.75		02/14/20 20:28	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.70	1.75		02/14/20 20:28	108-67-8	
Vinyl acetate	**<0.47**	ug/m3	1.3	0.47	1.75		02/14/20 20:28	108-05-4	
Vinyl chloride	**<0.22**	ug/m3	0.46	0.22	1.75		02/14/20 20:28	75-01-4	
m&p-Xylene	**3.9**	ug/m3	3.1	1.2	1.75		02/14/20 20:28	179601-23-1	
o-Xylene	**0.72J**	ug/m3	1.5	0.60	1.75		02/14/20 20:28	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

QC Batch: 660113 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10508419001, 10508419002, 10508419003

METHOD BLANK: 3542900 Matrix: Air
Associated Lab Samples: 10508419001, 10508419002, 10508419003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	02/14/20 11:06	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	02/14/20 11:06	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	02/14/20 11:06	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	02/14/20 11:06	
1,1-Dichloroethane	ug/m3	<0.22	0.82	02/14/20 11:06	
1,1-Dichloroethene	ug/m3	<0.27	0.81	02/14/20 11:06	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	02/14/20 11:06	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	02/14/20 11:06	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	02/14/20 11:06	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	02/14/20 11:06	
1,2-Dichloroethane	ug/m3	<0.15	0.41	02/14/20 11:06	
1,2-Dichloropropane	ug/m3	<0.23	0.94	02/14/20 11:06	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	02/14/20 11:06	
1,3-Butadiene	ug/m3	<0.13	0.45	02/14/20 11:06	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	02/14/20 11:06	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	02/14/20 11:06	
2-Butanone (MEK)	ug/m3	<0.37	3.0	02/14/20 11:06	
2-Hexanone	ug/m3	<0.74	4.2	02/14/20 11:06	
2-Propanol	ug/m3	<0.70	2.5	02/14/20 11:06	
4-Ethyltoluene	ug/m3	<0.57	2.5	02/14/20 11:06	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	02/14/20 11:06	
Acetone	ug/m3	<1.2	2.4	02/14/20 11:06	
Benzene	ug/m3	<0.15	0.32	02/14/20 11:06	
Benzyl chloride	ug/m3	<1.2	2.6	02/14/20 11:06	
Bromodichloromethane	ug/m3	<0.37	1.4	02/14/20 11:06	
Bromoform	ug/m3	<1.4	5.2	02/14/20 11:06	
Bromomethane	ug/m3	<0.23	0.79	02/14/20 11:06	
Carbon disulfide	ug/m3	<0.22	0.63	02/14/20 11:06	
Carbon tetrachloride	ug/m3	<0.43	1.3	02/14/20 11:06	
Chlorobenzene	ug/m3	<0.28	0.94	02/14/20 11:06	
Chloroethane	ug/m3	<0.26	0.54	02/14/20 11:06	
Chloroform	ug/m3	<0.20	0.50	02/14/20 11:06	
Chloromethane	ug/m3	<0.16	0.42	02/14/20 11:06	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	02/14/20 11:06	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	02/14/20 11:06	
Cyclohexane	ug/m3	<0.35	1.8	02/14/20 11:06	
Dibromochloromethane	ug/m3	<0.72	1.7	02/14/20 11:06	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	02/14/20 11:06	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	02/14/20 11:06	
Ethanol	ug/m3	<0.81	4.8	02/14/20 11:06	SS
Ethyl acetate	ug/m3	<0.19	0.73	02/14/20 11:06	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

METHOD BLANK: 3542900 Matrix: Air
Associated Lab Samples: 10508419001, 10508419002, 10508419003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	02/14/20 11:06	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	02/14/20 11:06	
m&p-Xylene	ug/m3	<0.70	1.8	02/14/20 11:06	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	02/14/20 11:06	
Methylene Chloride	ug/m3	<1.2	3.5	02/14/20 11:06	
n-Heptane	ug/m3	<0.38	0.83	02/14/20 11:06	
n-Hexane	ug/m3	<0.31	0.72	02/14/20 11:06	
Naphthalene	ug/m3	<1.3	2.7	02/14/20 11:06	
o-Xylene	ug/m3	<0.34	0.88	02/14/20 11:06	
Propylene	ug/m3	<0.14	0.35	02/14/20 11:06	
Styrene	ug/m3	<0.34	0.87	02/14/20 11:06	
Tetrachloroethene	ug/m3	<0.31	0.69	02/14/20 11:06	
Tetrahydrofuran	ug/m3	<0.26	0.60	02/14/20 11:06	
Toluene	ug/m3	<0.35	0.77	02/14/20 11:06	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	02/14/20 11:06	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	02/14/20 11:06	
Trichloroethene	ug/m3	<0.25	0.55	02/14/20 11:06	
Trichlorofluoromethane	ug/m3	<0.37	1.1	02/14/20 11:06	
Vinyl acetate	ug/m3	<0.27	0.72	02/14/20 11:06	
Vinyl chloride	ug/m3	<0.13	0.26	02/14/20 11:06	

LABORATORY CONTROL SAMPLE: 3542901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	54.3	95	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	67.6	94	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	55.5	97	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	74.2	92	70-130	
1,1-Dichloroethane	ug/m3	42.7	39.7	93	70-130	
1,1-Dichloroethene	ug/m3	41.4	38.4	93	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	173	111	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	42.6	83	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	77.8	97	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	62.6	99	70-136	
1,2-Dichloroethane	ug/m3	42.4	40.5	96	70-130	
1,2-Dichloropropane	ug/m3	48.6	46.2	95	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	39.9	77	70-136	
1,3-Butadiene	ug/m3	23.3	21.4	92	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	62.6	99	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	62.1	98	70-145	
2-Butanone (MEK)	ug/m3	31.4	29.9	95	61-130	
2-Hexanone	ug/m3	42.8	38.9	91	70-138	
2-Propanol	ug/m3	119	111	93	70-136	
4-Ethyltoluene	ug/m3	52.4	49.7	95	70-142	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

LABORATORY CONTROL SAMPLE: 3542901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	40.9	94	70-134	
Acetone	ug/m3	126	94.7	75	59-137	
Benzene	ug/m3	33.5	29.6	88	70-133	
Benzyl chloride	ug/m3	55.1	54.8	99	70-139	
Bromodichloromethane	ug/m3	71.5	70.3	98	70-130	
Bromoform	ug/m3	110	109	99	60-140	
Bromomethane	ug/m3	41.3	34.2	83	70-131	
Carbon disulfide	ug/m3	33.3	31.2	94	70-130	
Carbon tetrachloride	ug/m3	66.2	67.8	102	70-133	
Chlorobenzene	ug/m3	48.3	45.0	93	70-131	
Chloroethane	ug/m3	28.1	25.8	92	70-141	
Chloroform	ug/m3	51.1	47.1	92	70-130	
Chloromethane	ug/m3	21.9	19.5	89	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	39.6	95	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	46.0	97	70-138	
Cyclohexane	ug/m3	36.7	30.6	83	70-133	
Dibromochloromethane	ug/m3	90.7	97.1	107	70-139	
Dichlorodifluoromethane	ug/m3	51.6	46.9	91	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	64.2	88	65-133	
Ethanol	ug/m3	103	76.4	74	65-135	SS
Ethyl acetate	ug/m3	38.6	35.8	93	70-135	
Ethylbenzene	ug/m3	45.6	36.8	81	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	131	117	70-134	
m&p-Xylene	ug/m3	91.2	71.8	79	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	35.2	92	70-131	
Methylene Chloride	ug/m3	182	160	88	69-130	
n-Heptane	ug/m3	43.6	37.8	87	70-130	
n-Hexane	ug/m3	37.6	32.0	85	70-131	
Naphthalene	ug/m3	57.7	56.4	98	63-130	
o-Xylene	ug/m3	45.5	45.8	101	70-135	
Propylene	ug/m3	18.2	16.5	91	63-139	
Styrene	ug/m3	44.9	44.1	98	70-143	
Tetrachloroethene	ug/m3	71	65.9	93	70-136	
Tetrahydrofuran	ug/m3	31.5	32.0	102	70-137	
Toluene	ug/m3	39.5	33.7	85	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	39.3	93	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	46.1	97	70-139	
Trichloroethene	ug/m3	56.3	52.8	94	70-132	
Trichlorofluoromethane	ug/m3	59.7	55.1	92	65-136	
Vinyl acetate	ug/m3	34.5	32.3	94	66-140	
Vinyl chloride	ug/m3	26.7	23.6	89	68-141	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10508419

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10508419001	**IAO-1**	TO-15	660113		
10508419002	**IAO-2**	TO-15	660113		
10508419003	**IAB-1**	TO-15	660113		

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WO# : 10508419

10508419

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Page: 1 of 1

Section A
Required Client Information:

Company: KEY ENGINEERING GROUP
Address: 735 N. WATER ST #510
MILWAUKEE, WI 53202
Email To: tschoen@keyengineering.com
Phone: 414.225.0524 Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: Key Engineering
Copy To:
Purchase Order No.: 208410
Project Name: Schaefer Brush
Project Number: 1604-1204-0002

Section C
Invoice Information:

Attention: Toni Schoen
Company Name: Key Engineering
Address:
Pace Quote Reference: 00071744
Pace Project Manager/Sales Rep.
Pace Profile #: 34194

Program
☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NJ

Reporting Units
ug/m³ X mg/m³
PPBV PPMV
Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D Required Client Information / AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	IA0-1	6LC		2/11/20	8:00	2/11	1551	-28	-5	9520863						X					001
2	IA0-2	↓			8:02		1552	-30	-5	2374056						X					002
3	IAB-1			2/12/20	8:45	2/12	1345	-30	-7	1218106						X					003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Jason Wuerch	2-11	12:00	[signature] FedEx	2/12/20	1115

SAMPLE CONDITIONS

Temp in °C	—	Y/N	Y/N	Y/N
Received on Ice	Y/N	Y/N	Y/N	Y/N
Custody Sealed Cooler	Y/N	Y/N	Y/N	Y/N
Samples Intact	Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jason Wuerch

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 02-12-20

ORIGINAL

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Nov2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.20	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt

Client Name: Key Eng.

Project #: WO#: 10508419

PM: KNH Due Date: 02/20/20

CLIENT: Key Eng.

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial See Exception ☐

Tracking Number: 1083 0284 6720

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: _____ **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** —

Thermometer Used: ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** —

Date & Initials of Person Examining Contents: 2-13-20 MZ

Type of ice Received ☐ Blue ☐ Wet ☒ None

		Comments:
Chain of Custody Present?	☒ Yes ☐ No	1.
Chain of Custody Filled Out?	☒ Yes ☐ No	2.
Chain of Custody Relinquished?	☒ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	6.
Rush Turn Around Time Requested?	☐ Yes ☒ No	7.
Sufficient Volume?	☒ Yes ☐ No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	☒ Yes ☐ No ☒ Yes ☐ No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒ Yes ☐ No	10.
Media: Air Can Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes ☐ No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒ Yes ☐ No	13.

Gauge # ☒ 10AIR26 ☐ 10AIR34 ☐ 10AIR35 ☐ 4097

2/13/20 cmy Sample Number	Canisters Can ID	Flow Controller	Initial Pressure	Final Pressure	Canisters Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
~~1A0-2~~	—	—	—	—					
1A0-1	0952	0463	-6	+5					
1A0-2	2374	0256	-7	+5					
1AB-1	1218	1016	-7	+5					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kirsten Hoffberg **Date:** 2/14/2020

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)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

February 18, 2020

Toni Schoen
Key Engineering
735 N. Water St.
Milwaukee, WI 53202

RE: Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Dear Toni Schoen:
Enclosed are the analytical results for sample(s) received by the laboratory on February 13, 2020. 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,

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

Enclosures

cc: Valerie Collins, Key Engineering Milwaukee

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
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Minneapolis, MN 55414
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SAMPLE SUMMARY

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10508422001	**SS-2**	Air	02/11/20 09:09	02/13/20 11:15
10508422002	**SS-3**	Air	02/11/20 10:01	02/13/20 11:15
10508422003	**SS-4**	Air	02/11/20 09:55	02/13/20 11:15
10508422004	**SS-6**	Air	02/11/20 10:08	02/13/20 11:15
10508422005	**SS-7**	Air	02/11/20 10:13	02/13/20 11:15
10508422006	**SS-8**	Air	02/11/20 10:19	02/13/20 11:15

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SAMPLE ANALYTE COUNT

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10508422001	**SS-2**	TO-15	MLS	61	PASI-M
10508422002	**SS-3**	TO-15	MLS	61	PASI-M
10508422003	**SS-4**	TO-15	MLS	61	PASI-M
10508422004	**SS-6**	TO-15	MLS	61	PASI-M
10508422005	**SS-7**	TO-15	MLS	61	PASI-M
10508422006	**SS-8**	TO-15	MLS	61	PASI-M

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SUMMARY OF DETECTION

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10508422001	**SS-2**					
TO-15	Acetone	2.7J	ug/m3	4.6	02/16/20 23:46	
TO-15	Benzene	0.46J	ug/m3	0.62	02/16/20 23:46	
TO-15	1,4-Dichlorobenzene	3.5J	ug/m3	5.9	02/16/20 23:46	
TO-15	Dichlorodifluoromethane	2.5	ug/m3	1.9	02/16/20 23:46	
TO-15	Ethanol	4.3J	ug/m3	9.2	02/16/20 23:46	SS
TO-15	Ethylbenzene	1.9	ug/m3	1.7	02/16/20 23:46	
TO-15	4-Ethyltoluene	2.2J	ug/m3	4.8	02/16/20 23:46	
TO-15	n-Hexane	0.77J	ug/m3	1.4	02/16/20 23:46	
TO-15	Methylene Chloride	3.0J	ug/m3	6.8	02/16/20 23:46	
TO-15	Naphthalene	6.1	ug/m3	5.1	02/16/20 23:46	
TO-15	Tetrachloroethene	52.7	ug/m3	1.3	02/16/20 23:46	
TO-15	Tetrahydrofuran	2.7	ug/m3	1.2	02/16/20 23:46	
TO-15	Toluene	7.2	ug/m3	1.5	02/16/20 23:46	
TO-15	Trichlorofluoromethane	1.3J	ug/m3	2.2	02/16/20 23:46	
TO-15	1,2,4-Trimethylbenzene	8.2	ug/m3	1.9	02/16/20 23:46	
TO-15	1,3,5-Trimethylbenzene	2.6	ug/m3	1.9	02/16/20 23:46	
TO-15	m&p-Xylene	6.9	ug/m3	3.4	02/16/20 23:46	
TO-15	o-Xylene	3.2	ug/m3	1.7	02/16/20 23:46	
10508422002	**SS-3**					
TO-15	Ethanol	54.9J	ug/m3	138	02/17/20 01:43	SS
TO-15	Ethyl acetate	24.1	ug/m3	21.1	02/17/20 01:43	
TO-15	Tetrachloroethene	156000	ug/m3	1900	02/17/20 11:47	
TO-15	Toluene	24.0	ug/m3	22.1	02/17/20 01:43	
TO-15	Trichloroethene	68.1	ug/m3	15.7	02/17/20 01:43	
TO-15	1,1,2-Trichlorotrifluoroethane	301	ug/m3	44.9	02/17/20 01:43	
TO-15	1,3,5-Trimethylbenzene	13.2J	ug/m3	28.8	02/17/20 01:43	
10508422003	**SS-4**					
TO-15	cis-1,2-Dichloroethene	301	ug/m3	46.4	02/17/20 02:11	
TO-15	Tetrachloroethene	654000	ug/m3	5080	02/17/20 12:14	
TO-15	1,1,1-Trichloroethane	62.0J	ug/m3	63.9	02/17/20 02:11	
TO-15	Trichloroethene	1010	ug/m3	31.4	02/17/20 02:11	
TO-15	1,1,2-Trichlorotrifluoroethane	1270	ug/m3	89.9	02/17/20 02:11	
10508422004	**SS-6**					
TO-15	Acetone	17.2	ug/m3	4.6	02/17/20 00:16	
TO-15	Benzene	0.35J	ug/m3	0.62	02/17/20 00:16	
TO-15	2-Butanone (MEK)	10.0	ug/m3	5.8	02/17/20 00:16	
TO-15	1,4-Dichlorobenzene	2.9J	ug/m3	5.9	02/17/20 00:16	
TO-15	Dichlorodifluoromethane	2.5	ug/m3	1.9	02/17/20 00:16	
TO-15	Ethanol	7.3J	ug/m3	9.2	02/17/20 00:16	SS
TO-15	Ethyl acetate	3.4	ug/m3	1.4	02/17/20 00:16	
TO-15	Ethylbenzene	1.4J	ug/m3	1.7	02/17/20 00:16	
TO-15	4-Ethyltoluene	1.7J	ug/m3	4.8	02/17/20 00:16	
TO-15	Naphthalene	5.9	ug/m3	5.1	02/17/20 00:16	
TO-15	Propylene	0.77	ug/m3	0.67	02/17/20 00:16	
TO-15	Tetrachloroethene	1690	ug/m3	39.7	02/17/20 10:51	
TO-15	Tetrahydrofuran	1.7	ug/m3	1.2	02/17/20 00:16	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10508422004	**SS-6**					
TO-15	Toluene	5.7	ug/m3	1.5	02/17/20 00:16	
TO-15	1,1,1-Trichloroethane	1.2J	ug/m3	2.1	02/17/20 00:16	
TO-15	Trichloroethene	0.80J	ug/m3	1.0	02/17/20 00:16	
TO-15	Trichlorofluoromethane	1.3J	ug/m3	2.2	02/17/20 00:16	
TO-15	1,1,2-Trichlorotrifluoroethane	1.9J	ug/m3	3.0	02/17/20 00:16	
TO-15	1,2,4-Trimethylbenzene	6.9	ug/m3	1.9	02/17/20 00:16	
TO-15	1,3,5-Trimethylbenzene	2.4	ug/m3	1.9	02/17/20 00:16	
TO-15	m&p-Xylene	4.9	ug/m3	3.4	02/17/20 00:16	
TO-15	o-Xylene	2.1	ug/m3	1.7	02/17/20 00:16	
10508422005	**SS-7**					
TO-15	Acetone	123	ug/m3	4.6	02/17/20 00:45	
TO-15	Benzene	0.61J	ug/m3	0.62	02/17/20 00:45	
TO-15	2-Butanone (MEK)	8.4	ug/m3	5.8	02/17/20 00:45	
TO-15	Chloromethane	0.41J	ug/m3	0.81	02/17/20 00:45	
TO-15	Cyclohexane	1.1J	ug/m3	3.4	02/17/20 00:45	
TO-15	1,4-Dichlorobenzene	4.6J	ug/m3	5.9	02/17/20 00:45	
TO-15	Dichlorodifluoromethane	2.6	ug/m3	1.9	02/17/20 00:45	
TO-15	Ethanol	77.5	ug/m3	9.2	02/17/20 00:45	SS
TO-15	Ethyl acetate	5.9	ug/m3	1.4	02/17/20 00:45	
TO-15	Ethylbenzene	1.9	ug/m3	1.7	02/17/20 00:45	
TO-15	4-Ethyltoluene	2.7J	ug/m3	4.8	02/17/20 00:45	
TO-15	n-Hexane	0.98J	ug/m3	1.4	02/17/20 00:45	
TO-15	2-Hexanone	2.3J	ug/m3	8.0	02/17/20 00:45	
TO-15	Methylene Chloride	4.9J	ug/m3	6.8	02/17/20 00:45	
TO-15	4-Methyl-2-pentanone (MIBK)	1.1J	ug/m3	8.0	02/17/20 00:45	
TO-15	Naphthalene	8.0	ug/m3	5.1	02/17/20 00:45	
TO-15	2-Propanol	48.2	ug/m3	4.8	02/17/20 00:45	
TO-15	Styrene	0.92J	ug/m3	1.7	02/17/20 00:45	
TO-15	Tetrachloroethene	36800	ug/m3	317	02/17/20 11:19	
TO-15	Tetrahydrofuran	2.4	ug/m3	1.2	02/17/20 00:45	
TO-15	Toluene	9.3	ug/m3	1.5	02/17/20 00:45	
TO-15	1,1,1-Trichloroethane	23.0	ug/m3	2.1	02/17/20 00:45	
TO-15	Trichloroethene	34.6	ug/m3	1.0	02/17/20 00:45	
TO-15	Trichlorofluoromethane	1.4J	ug/m3	2.2	02/17/20 00:45	
TO-15	1,1,2-Trichlorotrifluoroethane	3.5	ug/m3	3.0	02/17/20 00:45	
TO-15	1,2,4-Trimethylbenzene	10.3	ug/m3	1.9	02/17/20 00:45	
TO-15	1,3,5-Trimethylbenzene	3.8	ug/m3	1.9	02/17/20 00:45	
TO-15	m&p-Xylene	6.7	ug/m3	3.4	02/17/20 00:45	
TO-15	o-Xylene	3.2	ug/m3	1.7	02/17/20 00:45	
10508422006	**SS-8**					
TO-15	Acetone	3.8J	ug/m3	4.6	02/17/20 01:15	
TO-15	Benzene	0.45J	ug/m3	0.62	02/17/20 01:15	
TO-15	Cyclohexane	2.8J	ug/m3	3.4	02/17/20 01:15	
TO-15	Dichlorodifluoromethane	2.5	ug/m3	1.9	02/17/20 01:15	
TO-15	Ethanol	23.8	ug/m3	9.2	02/17/20 01:15	SS
TO-15	Ethylbenzene	1.9	ug/m3	1.7	02/17/20 01:15	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10508422006	**SS-8**					
TO-15	4-Ethyltoluene	2.0J	ug/m3	4.8	02/17/20 01:15	
TO-15	n-Hexane	0.77J	ug/m3	1.4	02/17/20 01:15	
TO-15	Methylene Chloride	6.5J	ug/m3	6.8	02/17/20 01:15	
TO-15	Naphthalene	6.5	ug/m3	5.1	02/17/20 01:15	
TO-15	Styrene	0.74J	ug/m3	1.7	02/17/20 01:15	
TO-15	Tetrachloroethene	46.8	ug/m3	1.3	02/17/20 01:15	
TO-15	Tetrahydrofuran	1.6	ug/m3	1.2	02/17/20 01:15	
TO-15	Toluene	9.7	ug/m3	1.5	02/17/20 01:15	
TO-15	Trichloroethene	1.4	ug/m3	1.0	02/17/20 01:15	
TO-15	Trichlorofluoromethane	1.3J	ug/m3	2.2	02/17/20 01:15	
TO-15	1,2,4-Trimethylbenzene	7.4	ug/m3	1.9	02/17/20 01:15	
TO-15	1,3,5-Trimethylbenzene	2.8	ug/m3	1.9	02/17/20 01:15	
TO-15	m&p-Xylene	7.0	ug/m3	3.4	02/17/20 01:15	
TO-15	o-Xylene	2.8	ug/m3	1.7	02/17/20 01:15	

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ANALYTICAL RESULTS

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Sample: SS-2 **Lab ID: 10508422001** Collected: 02/11/20 09:09 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**2.7J**	ug/m3	4.6	2.3	1.92		02/16/20 23:46	67-64-1	
Benzene	**0.46J**	ug/m3	0.62	0.29	1.92		02/16/20 23:46	71-43-2	
Benzyl chloride	**<2.3**	ug/m3	5.0	2.3	1.92		02/16/20 23:46	100-44-7	
Bromodichloromethane	**<0.70**	ug/m3	2.6	0.70	1.92		02/16/20 23:46	75-27-4	
Bromoform	**<2.7**	ug/m3	10.1	2.7	1.92		02/16/20 23:46	75-25-2	
Bromomethane	**<0.44**	ug/m3	1.5	0.44	1.92		02/16/20 23:46	74-83-9	
1,3-Butadiene	**<0.25**	ug/m3	0.86	0.25	1.92		02/16/20 23:46	106-99-0	
2-Butanone (MEK)	**<0.71**	ug/m3	5.8	0.71	1.92		02/16/20 23:46	78-93-3	
Carbon disulfide	**<0.42**	ug/m3	1.2	0.42	1.92		02/16/20 23:46	75-15-0	
Carbon tetrachloride	**<0.82**	ug/m3	2.5	0.82	1.92		02/16/20 23:46	56-23-5	
Chlorobenzene	**<0.53**	ug/m3	1.8	0.53	1.92		02/16/20 23:46	108-90-7	
Chloroethane	**<0.50**	ug/m3	1.0	0.50	1.92		02/16/20 23:46	75-00-3	
Chloroform	**<0.38**	ug/m3	0.95	0.38	1.92		02/16/20 23:46	67-66-3	
Chloromethane	**<0.30**	ug/m3	0.81	0.30	1.92		02/16/20 23:46	74-87-3	
Cyclohexane	**<0.68**	ug/m3	3.4	0.68	1.92		02/16/20 23:46	110-82-7	
Dibromochloromethane	**<1.4**	ug/m3	3.3	1.4	1.92		02/16/20 23:46	124-48-1	
1,2-Dibromoethane (EDB)	**<0.70**	ug/m3	1.5	0.70	1.92		02/16/20 23:46	106-93-4	
1,2-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		02/16/20 23:46	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.3	1.1	1.92		02/16/20 23:46	541-73-1	
1,4-Dichlorobenzene	**3.5J**	ug/m3	5.9	1.9	1.92		02/16/20 23:46	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.9	0.56	1.92		02/16/20 23:46	75-71-8	
1,1-Dichloroethane	**<0.43**	ug/m3	1.6	0.43	1.92		02/16/20 23:46	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/m3	0.79	0.29	1.92		02/16/20 23:46	107-06-2	
1,1-Dichloroethene	**<0.53**	ug/m3	1.5	0.53	1.92		02/16/20 23:46	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/m3	1.5	0.42	1.92		02/16/20 23:46	156-59-2	
trans-1,2-Dichloroethene	**<0.55**	ug/m3	1.5	0.55	1.92		02/16/20 23:46	156-60-5	
1,2-Dichloropropane	**<0.44**	ug/m3	1.8	0.44	1.92		02/16/20 23:46	78-87-5	
cis-1,3-Dichloropropene	**<0.58**	ug/m3	1.8	0.58	1.92		02/16/20 23:46	10061-01-5	
trans-1,3-Dichloropropene	**<0.84**	ug/m3	1.8	0.84	1.92		02/16/20 23:46	10061-02-6	
Dichlorotetrafluoroethane	**<0.84**	ug/m3	2.7	0.84	1.92		02/16/20 23:46	76-14-2	
Ethanol	**4.3J**	ug/m3	9.2	1.6	1.92		02/16/20 23:46	64-17-5	SS
Ethyl acetate	**<0.36**	ug/m3	1.4	0.36	1.92		02/16/20 23:46	141-78-6	
Ethylbenzene	**1.9**	ug/m3	1.7	0.59	1.92		02/16/20 23:46	100-41-4	
4-Ethyltoluene	**2.2J**	ug/m3	4.8	1.1	1.92		02/16/20 23:46	622-96-8	
n-Heptane	**<0.73**	ug/m3	1.6	0.73	1.92		02/16/20 23:46	142-82-5	
Hexachloro-1,3-butadiene	**<3.8**	ug/m3	10.4	3.8	1.92		02/16/20 23:46	87-68-3	
n-Hexane	**0.77J**	ug/m3	1.4	0.60	1.92		02/16/20 23:46	110-54-3	
2-Hexanone	**<1.4**	ug/m3	8.0	1.4	1.92		02/16/20 23:46	591-78-6	
Methylene Chloride	**3.0J**	ug/m3	6.8	2.3	1.92		02/16/20 23:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.99**	ug/m3	8.0	0.99	1.92		02/16/20 23:46	108-10-1	
Methyl-tert-butyl ether	**<1.3**	ug/m3	7.0	1.3	1.92		02/16/20 23:46	1634-04-4	
Naphthalene	**6.1**	ug/m3	5.1	2.5	1.92		02/16/20 23:46	91-20-3	
2-Propanol	**<1.3**	ug/m3	4.8	1.3	1.92		02/16/20 23:46	67-63-0	
Propylene	**<0.27**	ug/m3	0.67	0.27	1.92		02/16/20 23:46	115-07-1	
Styrene	**<0.66**	ug/m3	1.7	0.66	1.92		02/16/20 23:46	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.59**	ug/m3	1.3	0.59	1.92		02/16/20 23:46	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Sample: SS-2 **Lab ID: 10508422001** Collected: 02/11/20 09:09 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**52.7**	ug/m3	1.3	0.60	1.92		02/16/20 23:46	127-18-4	
Tetrahydrofuran	**2.7**	ug/m3	1.2	0.50	1.92		02/16/20 23:46	109-99-9	
Toluene	**7.2**	ug/m3	1.5	0.67	1.92		02/16/20 23:46	108-88-3	
1,2,4-Trichlorobenzene	**<7.1**	ug/m3	14.5	7.1	1.92		02/16/20 23:46	120-82-1	
1,1,1-Trichloroethane	**<0.59**	ug/m3	2.1	0.59	1.92		02/16/20 23:46	71-55-6	
1,1,2-Trichloroethane	**<0.46**	ug/m3	1.1	0.46	1.92		02/16/20 23:46	79-00-5	
Trichloroethene	**<0.49**	ug/m3	1.0	0.49	1.92		02/16/20 23:46	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.2	0.70	1.92		02/16/20 23:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.1**	ug/m3	3.0	1.1	1.92		02/16/20 23:46	76-13-1	
1,2,4-Trimethylbenzene	**8.2**	ug/m3	1.9	0.87	1.92		02/16/20 23:46	95-63-6	
1,3,5-Trimethylbenzene	**2.6**	ug/m3	1.9	0.77	1.92		02/16/20 23:46	108-67-8	
Vinyl acetate	**<0.52**	ug/m3	1.4	0.52	1.92		02/16/20 23:46	108-05-4	
Vinyl chloride	**<0.24**	ug/m3	0.50	0.24	1.92		02/16/20 23:46	75-01-4	
m&p-Xylene	**6.9**	ug/m3	3.4	1.3	1.92		02/16/20 23:46	179601-23-1	
o-Xylene	**3.2**	ug/m3	1.7	0.66	1.92		02/16/20 23:46	95-47-6	

Sample: SS-3 **Lab ID: 10508422002** Collected: 02/11/20 10:01 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<34.8**	ug/m3	69.4	34.8	28.8		02/17/20 01:43	67-64-1	
Benzene	**<4.4**	ug/m3	9.4	4.4	28.8		02/17/20 01:43	71-43-2	
Benzyl chloride	**<34.6**	ug/m3	75.7	34.6	28.8		02/17/20 01:43	100-44-7	
Bromodichloromethane	**<10.5**	ug/m3	39.2	10.5	28.8		02/17/20 01:43	75-27-4	
Bromoform	**<40.9**	ug/m3	151	40.9	28.8		02/17/20 01:43	75-25-2	
Bromomethane	**<6.5**	ug/m3	22.7	6.5	28.8		02/17/20 01:43	74-83-9	
1,3-Butadiene	**<3.7**	ug/m3	13.0	3.7	28.8		02/17/20 01:43	106-99-0	
2-Butanone (MEK)	**<10.6**	ug/m3	86.4	10.6	28.8		02/17/20 01:43	78-93-3	
Carbon disulfide	**<6.3**	ug/m3	18.2	6.3	28.8		02/17/20 01:43	75-15-0	
Carbon tetrachloride	**<12.4**	ug/m3	36.9	12.4	28.8		02/17/20 01:43	56-23-5	
Chlorobenzene	**<7.9**	ug/m3	27.0	7.9	28.8		02/17/20 01:43	108-90-7	
Chloroethane	**<7.5**	ug/m3	15.4	7.5	28.8		02/17/20 01:43	75-00-3	
Chloroform	**<5.6**	ug/m3	14.3	5.6	28.8		02/17/20 01:43	67-66-3	
Chloromethane	**<4.5**	ug/m3	12.1	4.5	28.8		02/17/20 01:43	74-87-3	
Cyclohexane	**<10.2**	ug/m3	50.4	10.2	28.8		02/17/20 01:43	110-82-7	
Dibromochloromethane	**<20.7**	ug/m3	49.8	20.7	28.8		02/17/20 01:43	124-48-1	
1,2-Dibromoethane (EDB)	**<10.5**	ug/m3	22.5	10.5	28.8		02/17/20 01:43	106-93-4	
1,2-Dichlorobenzene	**<14.3**	ug/m3	35.1	14.3	28.8		02/17/20 01:43	95-50-1	
1,3-Dichlorobenzene	**<16.7**	ug/m3	35.1	16.7	28.8		02/17/20 01:43	541-73-1	
1,4-Dichlorobenzene	**<28.8**	ug/m3	88.1	28.8	28.8		02/17/20 01:43	106-46-7	
Dichlorodifluoromethane	**<8.4**	ug/m3	29.1	8.4	28.8		02/17/20 01:43	75-71-8	
1,1-Dichloroethane	**<6.5**	ug/m3	23.7	6.5	28.8		02/17/20 01:43	75-34-3	
1,2-Dichloroethane	**<4.3**	ug/m3	11.8	4.3	28.8		02/17/20 01:43	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Sample: SS-3 **Lab ID: 10508422002** Collected: 02/11/20 10:01 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<7.9**	ug/m3	23.2	7.9	28.8		02/17/20 01:43	75-35-4	
cis-1,2-Dichloroethene	**<6.3**	ug/m3	23.2	6.3	28.8		02/17/20 01:43	156-59-2	
trans-1,2-Dichloroethene	**<8.2**	ug/m3	23.2	8.2	28.8		02/17/20 01:43	156-60-5	
1,2-Dichloropropane	**<6.6**	ug/m3	27.0	6.6	28.8		02/17/20 01:43	78-87-5	
cis-1,3-Dichloropropene	**<8.8**	ug/m3	26.6	8.8	28.8		02/17/20 01:43	10061-01-5	
trans-1,3-Dichloropropene	**<12.7**	ug/m3	26.6	12.7	28.8		02/17/20 01:43	10061-02-6	
Dichlorotetrafluoroethane	**<12.6**	ug/m3	40.9	12.6	28.8		02/17/20 01:43	76-14-2	
Ethanol	**54.9J**	ug/m3	138	23.4	28.8		02/17/20 01:43	64-17-5	SS
Ethyl acetate	**24.1**	ug/m3	21.1	5.5	28.8		02/17/20 01:43	141-78-6	
Ethylbenzene	**<8.8**	ug/m3	25.4	8.8	28.8		02/17/20 01:43	100-41-4	
4-Ethyltoluene	**<16.4**	ug/m3	72.0	16.4	28.8		02/17/20 01:43	622-96-8	
n-Heptane	**<10.9**	ug/m3	24.0	10.9	28.8		02/17/20 01:43	142-82-5	
Hexachloro-1,3-butadiene	**<56.7**	ug/m3	156	56.7	28.8		02/17/20 01:43	87-68-3	
n-Hexane	**<9.0**	ug/m3	20.6	9.0	28.8		02/17/20 01:43	110-54-3	
2-Hexanone	**<21.5**	ug/m3	120	21.5	28.8		02/17/20 01:43	591-78-6	
Methylene Chloride	**<34.8**	ug/m3	102	34.8	28.8		02/17/20 01:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<14.9**	ug/m3	120	14.9	28.8		02/17/20 01:43	108-10-1	
Methyl-tert-butyl ether	**<19.1**	ug/m3	105	19.1	28.8		02/17/20 01:43	1634-04-4	
Naphthalene	**<37.7**	ug/m3	76.6	37.7	28.8		02/17/20 01:43	91-20-3	
2-Propanol	**<20.1**	ug/m3	72.0	20.1	28.8		02/17/20 01:43	67-63-0	
Propylene	**<4.0**	ug/m3	10.1	4.0	28.8		02/17/20 01:43	115-07-1	
Styrene	**<9.9**	ug/m3	24.9	9.9	28.8		02/17/20 01:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<8.9**	ug/m3	20.1	8.9	28.8		02/17/20 01:43	79-34-5	
Tetrachloroethene	**156000**	ug/m3	1900	868	2765		02/17/20 11:47	127-18-4	
Tetrahydrofuran	**<7.5**	ug/m3	17.3	7.5	28.8		02/17/20 01:43	109-99-9	
Toluene	**24.0**	ug/m3	22.1	10.1	28.8		02/17/20 01:43	108-88-3	
1,2,4-Trichlorobenzene	**<107**	ug/m3	217	107	28.8		02/17/20 01:43	120-82-1	
1,1,1-Trichloroethane	**<8.9**	ug/m3	32.0	8.9	28.8		02/17/20 01:43	71-55-6	
1,1,2-Trichloroethane	**<7.0**	ug/m3	16.0	7.0	28.8		02/17/20 01:43	79-00-5	
Trichloroethene	**68.1**	ug/m3	15.7	7.3	28.8		02/17/20 01:43	79-01-6	
Trichlorofluoromethane	**<10.5**	ug/m3	32.8	10.5	28.8		02/17/20 01:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**301**	ug/m3	44.9	16.2	28.8		02/17/20 01:43	76-13-1	
1,2,4-Trimethylbenzene	**<13.0**	ug/m3	28.8	13.0	28.8		02/17/20 01:43	95-63-6	
1,3,5-Trimethylbenzene	**13.2J**	ug/m3	28.8	11.5	28.8		02/17/20 01:43	108-67-8	
Vinyl acetate	**<7.8**	ug/m3	20.6	7.8	28.8		02/17/20 01:43	108-05-4	
Vinyl chloride	**<3.6**	ug/m3	7.5	3.6	28.8		02/17/20 01:43	75-01-4	
m&p-Xylene	**<20.1**	ug/m3	51.0	20.1	28.8		02/17/20 01:43	179601-23-1	
o-Xylene	**<9.9**	ug/m3	25.4	9.9	28.8		02/17/20 01:43	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Sample: SS-4 **Lab ID: 10508422003** Collected: 02/11/20 09:55 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<69.7**	ug/m3	139	69.7	57.6		02/17/20 02:11	67-64-1	
Benzene	**<8.8**	ug/m3	18.7	8.8	57.6		02/17/20 02:11	71-43-2	
Benzyl chloride	**<69.1**	ug/m3	151	69.1	57.6		02/17/20 02:11	100-44-7	
Bromodichloromethane	**<21.1**	ug/m3	78.3	21.1	57.6		02/17/20 02:11	75-27-4	
Bromoform	**<81.8**	ug/m3	302	81.8	57.6		02/17/20 02:11	75-25-2	
Bromomethane	**<13.1**	ug/m3	45.4	13.1	57.6		02/17/20 02:11	74-83-9	
1,3-Butadiene	**<7.4**	ug/m3	25.9	7.4	57.6		02/17/20 02:11	106-99-0	
2-Butanone (MEK)	**<21.3**	ug/m3	173	21.3	57.6		02/17/20 02:11	78-93-3	
Carbon disulfide	**<12.6**	ug/m3	36.5	12.6	57.6		02/17/20 02:11	75-15-0	
Carbon tetrachloride	**<24.7**	ug/m3	73.7	24.7	57.6		02/17/20 02:11	56-23-5	
Chlorobenzene	**<15.8**	ug/m3	53.9	15.8	57.6		02/17/20 02:11	108-90-7	
Chloroethane	**<15.0**	ug/m3	30.9	15.0	57.6		02/17/20 02:11	75-00-3	
Chloroform	**<11.3**	ug/m3	28.6	11.3	57.6		02/17/20 02:11	67-66-3	
Chloromethane	**<9.0**	ug/m3	24.2	9.0	57.6		02/17/20 02:11	74-87-3	
Cyclohexane	**<20.3**	ug/m3	101	20.3	57.6		02/17/20 02:11	110-82-7	
Dibromochloromethane	**<41.4**	ug/m3	99.6	41.4	57.6		02/17/20 02:11	124-48-1	
1,2-Dibromoethane (EDB)	**<21.1**	ug/m3	45.0	21.1	57.6		02/17/20 02:11	106-93-4	
1,2-Dichlorobenzene	**<28.7**	ug/m3	70.3	28.7	57.6		02/17/20 02:11	95-50-1	
1,3-Dichlorobenzene	**<33.5**	ug/m3	70.3	33.5	57.6		02/17/20 02:11	541-73-1	
1,4-Dichlorobenzene	**<57.6**	ug/m3	176	57.6	57.6		02/17/20 02:11	106-46-7	
Dichlorodifluoromethane	**<16.9**	ug/m3	58.2	16.9	57.6		02/17/20 02:11	75-71-8	
1,1-Dichloroethane	**<13.0**	ug/m3	47.4	13.0	57.6		02/17/20 02:11	75-34-3	
1,2-Dichloroethane	**<8.6**	ug/m3	23.7	8.6	57.6		02/17/20 02:11	107-06-2	
1,1-Dichloroethene	**<15.8**	ug/m3	46.4	15.8	57.6		02/17/20 02:11	75-35-4	
cis-1,2-Dichloroethene	**301**	ug/m3	46.4	12.6	57.6		02/17/20 02:11	156-59-2	
trans-1,2-Dichloroethene	**<16.4**	ug/m3	46.4	16.4	57.6		02/17/20 02:11	156-60-5	
1,2-Dichloropropane	**<13.2**	ug/m3	54.1	13.2	57.6		02/17/20 02:11	78-87-5	
cis-1,3-Dichloropropene	**<17.5**	ug/m3	53.2	17.5	57.6		02/17/20 02:11	10061-01-5	
trans-1,3-Dichloropropene	**<25.3**	ug/m3	53.2	25.3	57.6		02/17/20 02:11	10061-02-6	
Dichlorotetrafluoroethane	**<25.2**	ug/m3	81.8	25.2	57.6		02/17/20 02:11	76-14-2	
Ethanol	**<46.8**	ug/m3	276	46.8	57.6		02/17/20 02:11	64-17-5	SS
Ethyl acetate	**<10.9**	ug/m3	42.2	10.9	57.6		02/17/20 02:11	141-78-6	
Ethylbenzene	**<17.6**	ug/m3	50.9	17.6	57.6		02/17/20 02:11	100-41-4	
4-Ethyltoluene	**<32.8**	ug/m3	144	32.8	57.6		02/17/20 02:11	622-96-8	
n-Heptane	**<21.9**	ug/m3	48.0	21.9	57.6		02/17/20 02:11	142-82-5	
Hexachloro-1,3-butadiene	**<113**	ug/m3	312	113	57.6		02/17/20 02:11	87-68-3	
n-Hexane	**<17.9**	ug/m3	41.2	17.9	57.6		02/17/20 02:11	110-54-3	
2-Hexanone	**<42.9**	ug/m3	240	42.9	57.6		02/17/20 02:11	591-78-6	
Methylene Chloride	**<69.7**	ug/m3	203	69.7	57.6		02/17/20 02:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<29.8**	ug/m3	240	29.8	57.6		02/17/20 02:11	108-10-1	
Methyl-tert-butyl ether	**<38.2**	ug/m3	211	38.2	57.6		02/17/20 02:11	1634-04-4	
Naphthalene	**<75.5**	ug/m3	153	75.5	57.6		02/17/20 02:11	91-20-3	
2-Propanol	**<40.1**	ug/m3	144	40.1	57.6		02/17/20 02:11	67-63-0	
Propylene	**<8.1**	ug/m3	20.2	8.1	57.6		02/17/20 02:11	115-07-1	
Styrene	**<19.8**	ug/m3	49.9	19.8	57.6		02/17/20 02:11	100-42-5	
1,1,2,2-Tetrachloroethane	**<17.8**	ug/m3	40.2	17.8	57.6		02/17/20 02:11	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Sample: SS-4 **Lab ID: 10508422003** Collected: 02/11/20 09:55 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**654000**	ug/m3	5080	2320	7373		02/17/20 12:14	127-18-4	
Tetrahydrofuran	**<15.0**	ug/m3	34.6	15.0	57.6		02/17/20 02:11	109-99-9	
Toluene	**<20.2**	ug/m3	44.1	20.2	57.6		02/17/20 02:11	108-88-3	
1,2,4-Trichlorobenzene	**<214**	ug/m3	434	214	57.6		02/17/20 02:11	120-82-1	
1,1,1-Trichloroethane	**62.0J**	ug/m3	63.9	17.8	57.6		02/17/20 02:11	71-55-6	
1,1,2-Trichloroethane	**<13.9**	ug/m3	32.0	13.9	57.6		02/17/20 02:11	79-00-5	
Trichloroethene	**1010**	ug/m3	31.4	14.6	57.6		02/17/20 02:11	79-01-6	
Trichlorofluoromethane	**<21.1**	ug/m3	65.7	21.1	57.6		02/17/20 02:11	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1270**	ug/m3	89.9	32.5	57.6		02/17/20 02:11	76-13-1	
1,2,4-Trimethylbenzene	**<26.0**	ug/m3	57.5	26.0	57.6		02/17/20 02:11	95-63-6	
1,3,5-Trimethylbenzene	**<23.0**	ug/m3	57.5	23.0	57.6		02/17/20 02:11	108-67-8	
Vinyl acetate	**<15.6**	ug/m3	41.2	15.6	57.6		02/17/20 02:11	108-05-4	
Vinyl chloride	**<7.3**	ug/m3	15.0	7.3	57.6		02/17/20 02:11	75-01-4	
m&p-Xylene	**<40.3**	ug/m3	102	40.3	57.6		02/17/20 02:11	179601-23-1	
o-Xylene	**<19.8**	ug/m3	50.9	19.8	57.6		02/17/20 02:11	95-47-6	

Sample: SS-6 **Lab ID: 10508422004** Collected: 02/11/20 10:08 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**17.2**	ug/m3	4.6	2.3	1.92		02/17/20 00:16	67-64-1	
Benzene	**0.35J**	ug/m3	0.62	0.29	1.92		02/17/20 00:16	71-43-2	
Benzyl chloride	**<2.3**	ug/m3	5.0	2.3	1.92		02/17/20 00:16	100-44-7	
Bromodichloromethane	**<0.70**	ug/m3	2.6	0.70	1.92		02/17/20 00:16	75-27-4	
Bromoform	**<2.7**	ug/m3	10.1	2.7	1.92		02/17/20 00:16	75-25-2	
Bromomethane	**<0.44**	ug/m3	1.5	0.44	1.92		02/17/20 00:16	74-83-9	
1,3-Butadiene	**<0.25**	ug/m3	0.86	0.25	1.92		02/17/20 00:16	106-99-0	
2-Butanone (MEK)	**10.0**	ug/m3	5.8	0.71	1.92		02/17/20 00:16	78-93-3	
Carbon disulfide	**<0.42**	ug/m3	1.2	0.42	1.92		02/17/20 00:16	75-15-0	
Carbon tetrachloride	**<0.82**	ug/m3	2.5	0.82	1.92		02/17/20 00:16	56-23-5	
Chlorobenzene	**<0.53**	ug/m3	1.8	0.53	1.92		02/17/20 00:16	108-90-7	
Chloroethane	**<0.50**	ug/m3	1.0	0.50	1.92		02/17/20 00:16	75-00-3	
Chloroform	**<0.38**	ug/m3	0.95	0.38	1.92		02/17/20 00:16	67-66-3	
Chloromethane	**<0.30**	ug/m3	0.81	0.30	1.92		02/17/20 00:16	74-87-3	
Cyclohexane	**<0.68**	ug/m3	3.4	0.68	1.92		02/17/20 00:16	110-82-7	
Dibromochloromethane	**<1.4**	ug/m3	3.3	1.4	1.92		02/17/20 00:16	124-48-1	
1,2-Dibromoethane (EDB)	**<0.70**	ug/m3	1.5	0.70	1.92		02/17/20 00:16	106-93-4	
1,2-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		02/17/20 00:16	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.3	1.1	1.92		02/17/20 00:16	541-73-1	
1,4-Dichlorobenzene	**2.9J**	ug/m3	5.9	1.9	1.92		02/17/20 00:16	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.9	0.56	1.92		02/17/20 00:16	75-71-8	
1,1-Dichloroethane	**<0.43**	ug/m3	1.6	0.43	1.92		02/17/20 00:16	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/m3	0.79	0.29	1.92		02/17/20 00:16	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Sample: SS-6 **Lab ID: 10508422004** Collected: 02/11/20 10:08 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.53**	ug/m3	1.5	0.53	1.92		02/17/20 00:16	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/m3	1.5	0.42	1.92		02/17/20 00:16	156-59-2	
trans-1,2-Dichloroethene	**<0.55**	ug/m3	1.5	0.55	1.92		02/17/20 00:16	156-60-5	
1,2-Dichloropropane	**<0.44**	ug/m3	1.8	0.44	1.92		02/17/20 00:16	78-87-5	
cis-1,3-Dichloropropene	**<0.58**	ug/m3	1.8	0.58	1.92		02/17/20 00:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.84**	ug/m3	1.8	0.84	1.92		02/17/20 00:16	10061-02-6	
Dichlorotetrafluoroethane	**<0.84**	ug/m3	2.7	0.84	1.92		02/17/20 00:16	76-14-2	
Ethanol	**7.3J**	ug/m3	9.2	1.6	1.92		02/17/20 00:16	64-17-5	SS
Ethyl acetate	**3.4**	ug/m3	1.4	0.36	1.92		02/17/20 00:16	141-78-6	
Ethylbenzene	**1.4J**	ug/m3	1.7	0.59	1.92		02/17/20 00:16	100-41-4	
4-Ethyltoluene	**1.7J**	ug/m3	4.8	1.1	1.92		02/17/20 00:16	622-96-8	
n-Heptane	**<0.73**	ug/m3	1.6	0.73	1.92		02/17/20 00:16	142-82-5	
Hexachloro-1,3-butadiene	**<3.8**	ug/m3	10.4	3.8	1.92		02/17/20 00:16	87-68-3	
n-Hexane	**<0.60**	ug/m3	1.4	0.60	1.92		02/17/20 00:16	110-54-3	
2-Hexanone	**<1.4**	ug/m3	8.0	1.4	1.92		02/17/20 00:16	591-78-6	
Methylene Chloride	**<2.3**	ug/m3	6.8	2.3	1.92		02/17/20 00:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.99**	ug/m3	8.0	0.99	1.92		02/17/20 00:16	108-10-1	
Methyl-tert-butyl ether	**<1.3**	ug/m3	7.0	1.3	1.92		02/17/20 00:16	1634-04-4	
Naphthalene	**5.9**	ug/m3	5.1	2.5	1.92		02/17/20 00:16	91-20-3	
2-Propanol	**<1.3**	ug/m3	4.8	1.3	1.92		02/17/20 00:16	67-63-0	
Propylene	**0.77**	ug/m3	0.67	0.27	1.92		02/17/20 00:16	115-07-1	
Styrene	**<0.66**	ug/m3	1.7	0.66	1.92		02/17/20 00:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.59**	ug/m3	1.3	0.59	1.92		02/17/20 00:16	79-34-5	
Tetrachloroethene	**1690**	ug/m3	39.7	18.1	57.6		02/17/20 10:51	127-18-4	
Tetrahydrofuran	**1.7**	ug/m3	1.2	0.50	1.92		02/17/20 00:16	109-99-9	
Toluene	**5.7**	ug/m3	1.5	0.67	1.92		02/17/20 00:16	108-88-3	
1,2,4-Trichlorobenzene	**<7.1**	ug/m3	14.5	7.1	1.92		02/17/20 00:16	120-82-1	
1,1,1-Trichloroethane	**1.2J**	ug/m3	2.1	0.59	1.92		02/17/20 00:16	71-55-6	
1,1,2-Trichloroethane	**<0.46**	ug/m3	1.1	0.46	1.92		02/17/20 00:16	79-00-5	
Trichloroethene	**0.80J**	ug/m3	1.0	0.49	1.92		02/17/20 00:16	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.2	0.70	1.92		02/17/20 00:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.9J**	ug/m3	3.0	1.1	1.92		02/17/20 00:16	76-13-1	
1,2,4-Trimethylbenzene	**6.9**	ug/m3	1.9	0.87	1.92		02/17/20 00:16	95-63-6	
1,3,5-Trimethylbenzene	**2.4**	ug/m3	1.9	0.77	1.92		02/17/20 00:16	108-67-8	
Vinyl acetate	**<0.52**	ug/m3	1.4	0.52	1.92		02/17/20 00:16	108-05-4	
Vinyl chloride	**<0.24**	ug/m3	0.50	0.24	1.92		02/17/20 00:16	75-01-4	
m&p-Xylene	**4.9**	ug/m3	3.4	1.3	1.92		02/17/20 00:16	179601-23-1	
o-Xylene	**2.1**	ug/m3	1.7	0.66	1.92		02/17/20 00:16	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Sample: SS-7 **Lab ID: 10508422005** Collected: 02/11/20 10:13 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**123**	ug/m3	4.6	2.3	1.92		02/17/20 00:45	67-64-1	
Benzene	**0.61J**	ug/m3	0.62	0.29	1.92		02/17/20 00:45	71-43-2	
Benzyl chloride	**<2.3**	ug/m3	5.0	2.3	1.92		02/17/20 00:45	100-44-7	
Bromodichloromethane	**<0.70**	ug/m3	2.6	0.70	1.92		02/17/20 00:45	75-27-4	
Bromoform	**<2.7**	ug/m3	10.1	2.7	1.92		02/17/20 00:45	75-25-2	
Bromomethane	**<0.44**	ug/m3	1.5	0.44	1.92		02/17/20 00:45	74-83-9	
1,3-Butadiene	**<0.25**	ug/m3	0.86	0.25	1.92		02/17/20 00:45	106-99-0	
2-Butanone (MEK)	**8.4**	ug/m3	5.8	0.71	1.92		02/17/20 00:45	78-93-3	
Carbon disulfide	**<0.42**	ug/m3	1.2	0.42	1.92		02/17/20 00:45	75-15-0	
Carbon tetrachloride	**<0.82**	ug/m3	2.5	0.82	1.92		02/17/20 00:45	56-23-5	
Chlorobenzene	**<0.53**	ug/m3	1.8	0.53	1.92		02/17/20 00:45	108-90-7	
Chloroethane	**<0.50**	ug/m3	1.0	0.50	1.92		02/17/20 00:45	75-00-3	
Chloroform	**<0.38**	ug/m3	0.95	0.38	1.92		02/17/20 00:45	67-66-3	
Chloromethane	**0.41J**	ug/m3	0.81	0.30	1.92		02/17/20 00:45	74-87-3	
Cyclohexane	**1.1J**	ug/m3	3.4	0.68	1.92		02/17/20 00:45	110-82-7	
Dibromochloromethane	**<1.4**	ug/m3	3.3	1.4	1.92		02/17/20 00:45	124-48-1	
1,2-Dibromoethane (EDB)	**<0.70**	ug/m3	1.5	0.70	1.92		02/17/20 00:45	106-93-4	
1,2-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		02/17/20 00:45	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.3	1.1	1.92		02/17/20 00:45	541-73-1	
1,4-Dichlorobenzene	**4.6J**	ug/m3	5.9	1.9	1.92		02/17/20 00:45	106-46-7	
Dichlorodifluoromethane	**2.6**	ug/m3	1.9	0.56	1.92		02/17/20 00:45	75-71-8	
1,1-Dichloroethane	**<0.43**	ug/m3	1.6	0.43	1.92		02/17/20 00:45	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/m3	0.79	0.29	1.92		02/17/20 00:45	107-06-2	
1,1-Dichloroethene	**<0.53**	ug/m3	1.5	0.53	1.92		02/17/20 00:45	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/m3	1.5	0.42	1.92		02/17/20 00:45	156-59-2	
trans-1,2-Dichloroethene	**<0.55**	ug/m3	1.5	0.55	1.92		02/17/20 00:45	156-60-5	
1,2-Dichloropropane	**<0.44**	ug/m3	1.8	0.44	1.92		02/17/20 00:45	78-87-5	
cis-1,3-Dichloropropene	**<0.58**	ug/m3	1.8	0.58	1.92		02/17/20 00:45	10061-01-5	
trans-1,3-Dichloropropene	**<0.84**	ug/m3	1.8	0.84	1.92		02/17/20 00:45	10061-02-6	
Dichlorotetrafluoroethane	**<0.84**	ug/m3	2.7	0.84	1.92		02/17/20 00:45	76-14-2	
Ethanol	**77.5**	ug/m3	9.2	1.6	1.92		02/17/20 00:45	64-17-5	SS
Ethyl acetate	**5.9**	ug/m3	1.4	0.36	1.92		02/17/20 00:45	141-78-6	
Ethylbenzene	**1.9**	ug/m3	1.7	0.59	1.92		02/17/20 00:45	100-41-4	
4-Ethyltoluene	**2.7J**	ug/m3	4.8	1.1	1.92		02/17/20 00:45	622-96-8	
n-Heptane	**<0.73**	ug/m3	1.6	0.73	1.92		02/17/20 00:45	142-82-5	
Hexachloro-1,3-butadiene	**<3.8**	ug/m3	10.4	3.8	1.92		02/17/20 00:45	87-68-3	
n-Hexane	**0.98J**	ug/m3	1.4	0.60	1.92		02/17/20 00:45	110-54-3	
2-Hexanone	**2.3J**	ug/m3	8.0	1.4	1.92		02/17/20 00:45	591-78-6	
Methylene Chloride	**4.9J**	ug/m3	6.8	2.3	1.92		02/17/20 00:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.1J**	ug/m3	8.0	0.99	1.92		02/17/20 00:45	108-10-1	
Methyl-tert-butyl ether	**<1.3**	ug/m3	7.0	1.3	1.92		02/17/20 00:45	1634-04-4	
Naphthalene	**8.0**	ug/m3	5.1	2.5	1.92		02/17/20 00:45	91-20-3	
2-Propanol	**48.2**	ug/m3	4.8	1.3	1.92		02/17/20 00:45	67-63-0	
Propylene	**<0.27**	ug/m3	0.67	0.27	1.92		02/17/20 00:45	115-07-1	
Styrene	**0.92J**	ug/m3	1.7	0.66	1.92		02/17/20 00:45	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.59**	ug/m3	1.3	0.59	1.92		02/17/20 00:45	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Sample: SS-7 **Lab ID: 10508422005** Collected: 02/11/20 10:13 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**36800**	ug/m3	317	145	460.8		02/17/20 11:19	127-18-4	
Tetrahydrofuran	**2.4**	ug/m3	1.2	0.50	1.92		02/17/20 00:45	109-99-9	
Toluene	**9.3**	ug/m3	1.5	0.67	1.92		02/17/20 00:45	108-88-3	
1,2,4-Trichlorobenzene	**<7.1**	ug/m3	14.5	7.1	1.92		02/17/20 00:45	120-82-1	
1,1,1-Trichloroethane	**23.0**	ug/m3	2.1	0.59	1.92		02/17/20 00:45	71-55-6	
1,1,2-Trichloroethane	**<0.46**	ug/m3	1.1	0.46	1.92		02/17/20 00:45	79-00-5	
Trichloroethene	**34.6**	ug/m3	1.0	0.49	1.92		02/17/20 00:45	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.2	0.70	1.92		02/17/20 00:45	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3.5**	ug/m3	3.0	1.1	1.92		02/17/20 00:45	76-13-1	
1,2,4-Trimethylbenzene	**10.3**	ug/m3	1.9	0.87	1.92		02/17/20 00:45	95-63-6	
1,3,5-Trimethylbenzene	**3.8**	ug/m3	1.9	0.77	1.92		02/17/20 00:45	108-67-8	
Vinyl acetate	**<0.52**	ug/m3	1.4	0.52	1.92		02/17/20 00:45	108-05-4	
Vinyl chloride	**<0.24**	ug/m3	0.50	0.24	1.92		02/17/20 00:45	75-01-4	
m&p-Xylene	**6.7**	ug/m3	3.4	1.3	1.92		02/17/20 00:45	179601-23-1	
o-Xylene	**3.2**	ug/m3	1.7	0.66	1.92		02/17/20 00:45	95-47-6	

Sample: SS-8 **Lab ID: 10508422006** Collected: 02/11/20 10:19 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**3.8J**	ug/m3	4.6	2.3	1.92		02/17/20 01:15	67-64-1	
Benzene	**0.45J**	ug/m3	0.62	0.29	1.92		02/17/20 01:15	71-43-2	
Benzyl chloride	**<2.3**	ug/m3	5.0	2.3	1.92		02/17/20 01:15	100-44-7	
Bromodichloromethane	**<0.70**	ug/m3	2.6	0.70	1.92		02/17/20 01:15	75-27-4	
Bromoform	**<2.7**	ug/m3	10.1	2.7	1.92		02/17/20 01:15	75-25-2	
Bromomethane	**<0.44**	ug/m3	1.5	0.44	1.92		02/17/20 01:15	74-83-9	
1,3-Butadiene	**<0.25**	ug/m3	0.86	0.25	1.92		02/17/20 01:15	106-99-0	
2-Butanone (MEK)	**<0.71**	ug/m3	5.8	0.71	1.92		02/17/20 01:15	78-93-3	
Carbon disulfide	**<0.42**	ug/m3	1.2	0.42	1.92		02/17/20 01:15	75-15-0	
Carbon tetrachloride	**<0.82**	ug/m3	2.5	0.82	1.92		02/17/20 01:15	56-23-5	
Chlorobenzene	**<0.53**	ug/m3	1.8	0.53	1.92		02/17/20 01:15	108-90-7	
Chloroethane	**<0.50**	ug/m3	1.0	0.50	1.92		02/17/20 01:15	75-00-3	
Chloroform	**<0.38**	ug/m3	0.95	0.38	1.92		02/17/20 01:15	67-66-3	
Chloromethane	**<0.30**	ug/m3	0.81	0.30	1.92		02/17/20 01:15	74-87-3	
Cyclohexane	**2.8J**	ug/m3	3.4	0.68	1.92		02/17/20 01:15	110-82-7	
Dibromochloromethane	**<1.4**	ug/m3	3.3	1.4	1.92		02/17/20 01:15	124-48-1	
1,2-Dibromoethane (EDB)	**<0.70**	ug/m3	1.5	0.70	1.92		02/17/20 01:15	106-93-4	
1,2-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		02/17/20 01:15	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.3	1.1	1.92		02/17/20 01:15	541-73-1	
1,4-Dichlorobenzene	**<1.9**	ug/m3	5.9	1.9	1.92		02/17/20 01:15	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.9	0.56	1.92		02/17/20 01:15	75-71-8	
1,1-Dichloroethane	**<0.43**	ug/m3	1.6	0.43	1.92		02/17/20 01:15	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/m3	0.79	0.29	1.92		02/17/20 01:15	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Sample: SS-8 **Lab ID: 10508422006** Collected: 02/11/20 10:19 Received: 02/13/20 11:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.53**	ug/m3	1.5	0.53	1.92		02/17/20 01:15	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/m3	1.5	0.42	1.92		02/17/20 01:15	156-59-2	
trans-1,2-Dichloroethene	**<0.55**	ug/m3	1.5	0.55	1.92		02/17/20 01:15	156-60-5	
1,2-Dichloropropane	**<0.44**	ug/m3	1.8	0.44	1.92		02/17/20 01:15	78-87-5	
cis-1,3-Dichloropropene	**<0.58**	ug/m3	1.8	0.58	1.92		02/17/20 01:15	10061-01-5	
trans-1,3-Dichloropropene	**<0.84**	ug/m3	1.8	0.84	1.92		02/17/20 01:15	10061-02-6	
Dichlorotetrafluoroethane	**<0.84**	ug/m3	2.7	0.84	1.92		02/17/20 01:15	76-14-2	
Ethanol	**23.8**	ug/m3	9.2	1.6	1.92		02/17/20 01:15	64-17-5	SS
Ethyl acetate	**<0.36**	ug/m3	1.4	0.36	1.92		02/17/20 01:15	141-78-6	
Ethylbenzene	**1.9**	ug/m3	1.7	0.59	1.92		02/17/20 01:15	100-41-4	
4-Ethyltoluene	**2.0J**	ug/m3	4.8	1.1	1.92		02/17/20 01:15	622-96-8	
n-Heptane	**<0.73**	ug/m3	1.6	0.73	1.92		02/17/20 01:15	142-82-5	
Hexachloro-1,3-butadiene	**<3.8**	ug/m3	10.4	3.8	1.92		02/17/20 01:15	87-68-3	
n-Hexane	**0.77J**	ug/m3	1.4	0.60	1.92		02/17/20 01:15	110-54-3	
2-Hexanone	**<1.4**	ug/m3	8.0	1.4	1.92		02/17/20 01:15	591-78-6	
Methylene Chloride	**6.5J**	ug/m3	6.8	2.3	1.92		02/17/20 01:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.99**	ug/m3	8.0	0.99	1.92		02/17/20 01:15	108-10-1	
Methyl-tert-butyl ether	**<1.3**	ug/m3	7.0	1.3	1.92		02/17/20 01:15	1634-04-4	
Naphthalene	**6.5**	ug/m3	5.1	2.5	1.92		02/17/20 01:15	91-20-3	
2-Propanol	**<1.3**	ug/m3	4.8	1.3	1.92		02/17/20 01:15	67-63-0	
Propylene	**<0.27**	ug/m3	0.67	0.27	1.92		02/17/20 01:15	115-07-1	
Styrene	**0.74J**	ug/m3	1.7	0.66	1.92		02/17/20 01:15	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.59**	ug/m3	1.3	0.59	1.92		02/17/20 01:15	79-34-5	
Tetrachloroethene	**46.8**	ug/m3	1.3	0.60	1.92		02/17/20 01:15	127-18-4	
Tetrahydrofuran	**1.6**	ug/m3	1.2	0.50	1.92		02/17/20 01:15	109-99-9	
Toluene	**9.7**	ug/m3	1.5	0.67	1.92		02/17/20 01:15	108-88-3	
1,2,4-Trichlorobenzene	**<7.1**	ug/m3	14.5	7.1	1.92		02/17/20 01:15	120-82-1	
1,1,1-Trichloroethane	**<0.59**	ug/m3	2.1	0.59	1.92		02/17/20 01:15	71-55-6	
1,1,2-Trichloroethane	**<0.46**	ug/m3	1.1	0.46	1.92		02/17/20 01:15	79-00-5	
Trichloroethene	**1.4**	ug/m3	1.0	0.49	1.92		02/17/20 01:15	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.2	0.70	1.92		02/17/20 01:15	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.1**	ug/m3	3.0	1.1	1.92		02/17/20 01:15	76-13-1	
1,2,4-Trimethylbenzene	**7.4**	ug/m3	1.9	0.87	1.92		02/17/20 01:15	95-63-6	
1,3,5-Trimethylbenzene	**2.8**	ug/m3	1.9	0.77	1.92		02/17/20 01:15	108-67-8	
Vinyl acetate	**<0.52**	ug/m3	1.4	0.52	1.92		02/17/20 01:15	108-05-4	
Vinyl chloride	**<0.24**	ug/m3	0.50	0.24	1.92		02/17/20 01:15	75-01-4	
m&p-Xylene	**7.0**	ug/m3	3.4	1.3	1.92		02/17/20 01:15	179601-23-1	
o-Xylene	**2.8**	ug/m3	1.7	0.66	1.92		02/17/20 01:15	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

QC Batch: 660221 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10508422001, 10508422002, 10508422003, 10508422004, 10508422005, 10508422006

METHOD BLANK: 3543971 Matrix: Air
Associated Lab Samples: 10508422001, 10508422002, 10508422003, 10508422004, 10508422005, 10508422006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	02/16/20 09:59	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	02/16/20 09:59	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	02/16/20 09:59	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	02/16/20 09:59	
1,1-Dichloroethane	ug/m3	<0.22	0.82	02/16/20 09:59	
1,1-Dichloroethene	ug/m3	<0.27	0.81	02/16/20 09:59	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	02/16/20 09:59	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	02/16/20 09:59	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	02/16/20 09:59	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	02/16/20 09:59	
1,2-Dichloroethane	ug/m3	<0.15	0.41	02/16/20 09:59	
1,2-Dichloropropane	ug/m3	<0.23	0.94	02/16/20 09:59	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	02/16/20 09:59	
1,3-Butadiene	ug/m3	<0.13	0.45	02/16/20 09:59	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	02/16/20 09:59	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	02/16/20 09:59	
2-Butanone (MEK)	ug/m3	<0.37	3.0	02/16/20 09:59	
2-Hexanone	ug/m3	<0.74	4.2	02/16/20 09:59	
2-Propanol	ug/m3	<0.70	2.5	02/16/20 09:59	
4-Ethyltoluene	ug/m3	<0.57	2.5	02/16/20 09:59	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	02/16/20 09:59	
Acetone	ug/m3	<1.2	2.4	02/16/20 09:59	
Benzene	ug/m3	<0.15	0.32	02/16/20 09:59	
Benzyl chloride	ug/m3	<1.2	2.6	02/16/20 09:59	
Bromodichloromethane	ug/m3	<0.37	1.4	02/16/20 09:59	
Bromoform	ug/m3	<1.4	5.2	02/16/20 09:59	
Bromomethane	ug/m3	<0.23	0.79	02/16/20 09:59	
Carbon disulfide	ug/m3	<0.22	0.63	02/16/20 09:59	
Carbon tetrachloride	ug/m3	<0.43	1.3	02/16/20 09:59	
Chlorobenzene	ug/m3	<0.28	0.94	02/16/20 09:59	
Chloroethane	ug/m3	<0.26	0.54	02/16/20 09:59	
Chloroform	ug/m3	<0.20	0.50	02/16/20 09:59	
Chloromethane	ug/m3	<0.16	0.42	02/16/20 09:59	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	02/16/20 09:59	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	02/16/20 09:59	
Cyclohexane	ug/m3	<0.35	1.8	02/16/20 09:59	
Dibromochloromethane	ug/m3	<0.72	1.7	02/16/20 09:59	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	02/16/20 09:59	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	02/16/20 09:59	
Ethanol	ug/m3	<0.81	4.8	02/16/20 09:59	SS
Ethyl acetate	ug/m3	<0.19	0.73	02/16/20 09:59	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

METHOD BLANK: 3543971 Matrix: Air
Associated Lab Samples: 10508422001, 10508422002, 10508422003, 10508422004, 10508422005, 10508422006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	02/16/20 09:59	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	02/16/20 09:59	
m&p-Xylene	ug/m3	<0.70	1.8	02/16/20 09:59	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	02/16/20 09:59	
Methylene Chloride	ug/m3	<1.2	3.5	02/16/20 09:59	
n-Heptane	ug/m3	<0.38	0.83	02/16/20 09:59	
n-Hexane	ug/m3	<0.31	0.72	02/16/20 09:59	
Naphthalene	ug/m3	<1.3	2.7	02/16/20 09:59	
o-Xylene	ug/m3	<0.34	0.88	02/16/20 09:59	
Propylene	ug/m3	<0.14	0.35	02/16/20 09:59	
Styrene	ug/m3	<0.34	0.87	02/16/20 09:59	
Tetrachloroethene	ug/m3	<0.31	0.69	02/16/20 09:59	
Tetrahydrofuran	ug/m3	<0.26	0.60	02/16/20 09:59	
Toluene	ug/m3	<0.35	0.77	02/16/20 09:59	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	02/16/20 09:59	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	02/16/20 09:59	
Trichloroethene	ug/m3	<0.25	0.55	02/16/20 09:59	
Trichlorofluoromethane	ug/m3	<0.37	1.1	02/16/20 09:59	
Vinyl acetate	ug/m3	<0.27	0.72	02/16/20 09:59	
Vinyl chloride	ug/m3	<0.13	0.26	02/16/20 09:59	

LABORATORY CONTROL SAMPLE: 3543972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	57.2	100	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	73.0	102	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	58.6	102	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	73.8	92	70-130	
1,1-Dichloroethane	ug/m3	42.7	42.2	99	70-130	
1,1-Dichloroethene	ug/m3	41.4	39.4	95	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	180	116	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	43.8	85	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	84.4	105	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	65.9	105	70-136	
1,2-Dichloroethane	ug/m3	42.4	42.9	101	70-130	
1,2-Dichloropropane	ug/m3	48.6	48.0	99	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	42.7	83	70-136	
1,3-Butadiene	ug/m3	23.3	22.9	98	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	66.6	105	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	64.6	102	70-145	
2-Butanone (MEK)	ug/m3	31.4	31.7	101	61-130	
2-Hexanone	ug/m3	42.8	41.6	97	70-138	
2-Propanol	ug/m3	119	117	98	70-136	
4-Ethyltoluene	ug/m3	52.4	53.2	101	70-142	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

LABORATORY CONTROL SAMPLE: 3543972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	43.7	100	70-134	
Acetone	ug/m3	126	98.3	78	59-137	
Benzene	ug/m3	33.5	31.1	93	70-133	
Benzyl chloride	ug/m3	55.1	57.6	105	70-139	
Bromodichloromethane	ug/m3	71.5	74.2	104	70-130	
Bromoform	ug/m3	110	117	106	60-140	
Bromomethane	ug/m3	41.3	36.6	89	70-131	
Carbon disulfide	ug/m3	33.3	33.1	99	70-130	
Carbon tetrachloride	ug/m3	66.2	70.0	106	70-133	
Chlorobenzene	ug/m3	48.3	48.6	101	70-131	
Chloroethane	ug/m3	28.1	27.6	98	70-141	
Chloroform	ug/m3	51.1	50.6	99	70-130	
Chloromethane	ug/m3	21.9	21.2	97	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	43.2	104	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	48.9	103	70-138	
Cyclohexane	ug/m3	36.7	32.4	88	70-133	
Dibromochloromethane	ug/m3	90.7	104	114	70-139	
Dichlorodifluoromethane	ug/m3	51.6	50.2	97	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	70.6	97	65-133	
Ethanol	ug/m3	103	80.0	78	65-135	SS
Ethyl acetate	ug/m3	38.6	37.9	98	70-135	
Ethylbenzene	ug/m3	45.6	39.7	87	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	139	124	70-134	
m&p-Xylene	ug/m3	91.2	77.0	84	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	37.7	98	70-131	
Methylene Chloride	ug/m3	182	173	95	69-130	
n-Heptane	ug/m3	43.6	39.9	92	70-130	
n-Hexane	ug/m3	37.6	34.5	92	70-131	
Naphthalene	ug/m3	57.7	58.9	102	63-130	
o-Xylene	ug/m3	45.5	48.9	108	70-135	
Propylene	ug/m3	18.2	17.5	96	63-139	
Styrene	ug/m3	44.9	47.4	106	70-143	
Tetrachloroethene	ug/m3	71	70.7	100	70-136	
Tetrahydrofuran	ug/m3	31.5	33.7	107	70-137	
Toluene	ug/m3	39.5	35.4	90	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	42.1	100	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	48.4	102	70-139	
Trichloroethene	ug/m3	56.3	54.9	97	70-132	
Trichlorofluoromethane	ug/m3	59.7	55.7	93	65-136	
Vinyl acetate	ug/m3	34.5	34.1	99	66-140	
Vinyl chloride	ug/m3	26.7	25.7	96	68-141	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

SAMPLE DUPLICATE: 3544218

Parameter	Units	10508414001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.52	<0.52		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.52	<0.52		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.95	<0.95		25	
1,1-Dichloroethane	ug/m3	<0.38	<0.38		25	
1,1-Dichloroethene	ug/m3	<0.46	<0.46		25	
1,2,4-Trichlorobenzene	ug/m3	<6.2	<6.2		25	
1,2,4-Trimethylbenzene	ug/m3	2.0	2.1	4	25	
1,2-Dibromoethane (EDB)	ug/m3	<0.61	<0.61		25	
1,2-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,2-Dichloroethane	ug/m3	<0.25	<0.25		25	
1,2-Dichloropropane	ug/m3	<0.39	<0.39		25	
1,3,5-Trimethylbenzene	ug/m3	1.0J	1.1J		25	
1,3-Butadiene	ug/m3	<0.22	<0.22		25	
1,3-Dichlorobenzene	ug/m3	<0.98	<0.98		25	
1,4-Dichlorobenzene	ug/m3	18.4	18.8	2	25	
2-Butanone (MEK)	ug/m3	16.2	15.8	3	25	
2-Hexanone	ug/m3	<1.3	<1.3		25	
2-Propanol	ug/m3	4.2	4.3	1	25	
4-Ethyltoluene	ug/m3	<0.96	<0.96		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.87	<0.87		25	
Acetone	ug/m3	26.8	25.7	4	25	
Benzene	ug/m3	1.1	1.1	2	25	
Benzyl chloride	ug/m3	<2.0	<2.0		25	
Bromodichloromethane	ug/m3	<0.61	<0.61		25	
Bromoform	ug/m3	<2.4	<2.4		25	
Bromomethane	ug/m3	<0.38	<0.38		25	
Carbon disulfide	ug/m3	<0.37	<0.37		25	
Carbon tetrachloride	ug/m3	<0.72	<0.72		25	
Chlorobenzene	ug/m3	<0.46	<0.46		25	
Chloroethane	ug/m3	<0.44	<0.44		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	0.92	0.83	9	25	
cis-1,2-Dichloroethene	ug/m3	<0.37	<0.37		25	
cis-1,3-Dichloropropene	ug/m3	<0.51	<0.51		25	
Cyclohexane	ug/m3	<0.59	<0.59		25	
Dibromochloromethane	ug/m3	<1.2	<1.2		25	
Dichlorodifluoromethane	ug/m3	2.7	2.6	3	25	
Dichlorotetrafluoroethane	ug/m3	<0.73	<0.73		25	
Ethanol	ug/m3	181	170	6	25	SS
Ethyl acetate	ug/m3	1.7	1.7	0	25	
Ethylbenzene	ug/m3	1.5	1.6	4	25	
Hexachloro-1,3-butadiene	ug/m3	<3.3	<3.3		25	
m&p-Xylene	ug/m3	4.8	4.8	1	25	
Methyl-tert-butyl ether	ug/m3	<1.1	<1.1		25	
Methylene Chloride	ug/m3	15.7	15.1	4	25	
n-Heptane	ug/m3	1.4J	<0.64		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

SAMPLE DUPLICATE: 3544218

Parameter	Units	10508414001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	1.9	2.0	8	25	
Naphthalene	ug/m3	<2.2	<2.2		25	
o-Xylene	ug/m3	1.2J	1.3J		25	
Propylene	ug/m3	<0.24	<0.24		25	
Styrene	ug/m3	12.7	13.0	2	25	
Tetrachloroethene	ug/m3	16.8	17.1	1	25	
Tetrahydrofuran	ug/m3	<0.44	<0.44		25	
Toluene	ug/m3	170	169	1	25	
trans-1,2-Dichloroethene	ug/m3	<0.48	<0.48		25	
trans-1,3-Dichloropropene	ug/m3	<0.74	<0.74		25	
Trichloroethene	ug/m3	1.5	1.4	5	25	
Trichlorofluoromethane	ug/m3	1.4J	1.3J		25	
Vinyl acetate	ug/m3	<0.45	<0.45		25	
Vinyl chloride	ug/m3	<0.21	<0.21		25	

SAMPLE DUPLICATE: 3544219

Parameter	Units	10508414002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.52	<0.52		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.52	<0.52		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.95	<0.95		25	
1,1-Dichloroethane	ug/m3	<0.38	<0.38		25	
1,1-Dichloroethene	ug/m3	<0.46	<0.46		25	
1,2,4-Trichlorobenzene	ug/m3	<6.2	<6.2		25	
1,2,4-Trimethylbenzene	ug/m3	2.2	2.2	1	25	
1,2-Dibromoethane (EDB)	ug/m3	<0.61	<0.61		25	
1,2-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,2-Dichloroethane	ug/m3	<0.25	<0.25		25	
1,2-Dichloropropane	ug/m3	<0.39	<0.39		25	
1,3,5-Trimethylbenzene	ug/m3	1.1J	1.1J		25	
1,3-Butadiene	ug/m3	<0.22	<0.22		25	
1,3-Dichlorobenzene	ug/m3	<0.98	<0.98		25	
1,4-Dichlorobenzene	ug/m3	19.1	18.8	1	25	
2-Butanone (MEK)	ug/m3	17.6	17.3	1	25	
2-Hexanone	ug/m3	<1.3	<1.3		25	
2-Propanol	ug/m3	5.0	5.2	3	25	
4-Ethyltoluene	ug/m3	<0.96	<0.96		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.87	<0.87		25	
Acetone	ug/m3	26.9	27.2	1	25	
Benzene	ug/m3	1.2	1.2	2	25	
Benzyl chloride	ug/m3	<2.0	<2.0		25	
Bromodichloromethane	ug/m3	<0.61	<0.61		25	
Bromoform	ug/m3	<2.4	<2.4		25	
Bromomethane	ug/m3	<0.38	<0.38		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

SAMPLE DUPLICATE: 3544219

Parameter	Units	10508414002 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	<0.37	<0.37		25	
Carbon tetrachloride	ug/m3	<0.72	<0.72		25	
Chlorobenzene	ug/m3	<0.46	<0.46		25	
Chloroethane	ug/m3	<0.44	<0.44		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	0.87	0.92	5	25	
cis-1,2-Dichloroethene	ug/m3	<0.37	<0.37		25	
cis-1,3-Dichloropropene	ug/m3	<0.51	<0.51		25	
Cyclohexane	ug/m3	<0.59	1.0J		25	
Dibromochloromethane	ug/m3	<1.2	<1.2		25	
Dichlorodifluoromethane	ug/m3	2.5	2.6	4	25	
Dichlorotetrafluoroethane	ug/m3	<0.73	<0.73		25	
Ethanol	ug/m3	207	213	3	25	SS
Ethyl acetate	ug/m3	1.8	1.7	5	25	
Ethylbenzene	ug/m3	1.6	1.6	1	25	
Hexachloro-1,3-butadiene	ug/m3	<3.3	<3.3		25	
m&p-Xylene	ug/m3	5.2	5.3	2	25	
Methyl-tert-butyl ether	ug/m3	<1.1	<1.1		25	
Methylene Chloride	ug/m3	15.1	15.0	0	25	
n-Heptane	ug/m3	<0.64	<0.64		25	
n-Hexane	ug/m3	2.2	2.2	4	25	
Naphthalene	ug/m3	<2.2	<2.2		25	
o-Xylene	ug/m3	1.4J	1.4J		25	
Propylene	ug/m3	<0.24	<0.24		25	
Styrene	ug/m3	20.3	20.8	2	25	
Tetrachloroethene	ug/m3	13.1	13.1	0	25	
Tetrahydrofuran	ug/m3	0.57J	0.56J		25	
Toluene	ug/m3	177	181	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.48	<0.48		25	
trans-1,3-Dichloropropene	ug/m3	<0.74	<0.74		25	
Trichloroethene	ug/m3	1.5	1.5	0	25	
Trichlorofluoromethane	ug/m3	1.3J	1.4J		25	
Vinyl acetate	ug/m3	<0.45	<0.45		25	
Vinyl chloride	ug/m3	<0.21	<0.21		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1604-1204-0004 Schaefer Brush
Pace Project No.: 10508422

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10508422001	**SS-2**	TO-15	660221		
10508422002	**SS-3**	TO-15	660221		
10508422003	**SS-4**	TO-15	660221		
10508422004	**SS-6**	TO-15	660221		
10508422005	**SS-7**	TO-15	660221		
10508422006	**SS-8**	TO-15	660221		

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AIR: CHAIN-OF-CU

The Chain-of-Custody is a LEGAL DOCUME

WO# : 10508422

10508422

Page: 1 of 1

Section A Required Client Information:

Company: KEY ENGINEERING GROUP
Address: 735 N. WATER ST #510
Milwaukee, WI 53202
Email To: tschoen@keyengineering.com
Phone: 414.225-0594 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Key Engineering
Copy To:
Purchase Order No.: 207984
Project Name: Schaefer Brush
Project Number: 160474204-0004

Section C Invoice Information:

Attention: Toni Schoen
Company Name: Key Engineering
Address:
Pace Quote Reference: CO071744
Pace Project Manager/Sales Rep.
Pace Profile #: 34194

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Initial Field reading (-inches of Hg)	Final Field reading (-inches of Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	SS-2	6LC		2/11/20	8:39	2/11	9:09	-24	-2	16549	1607							X			001
2	SS-3				9:31		10:01	-17	-1	15449	1703										002
3	SS-4				9:25		9:55	-30	-9	1583	1626										003
4	SS-6				9:38		10:08	-30	-9	12820816											004
5	SS-7				9:43		10:13	-30	-8	10421749											005
6	SS-8				9:49		10:19	-30	-9	30171654											006
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
KEY	2/11	1700	RACE	2/13/20	1115

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AMB		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jason Wyerch

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 02/12/20

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

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Nov2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.20	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt

Client Name: Key Eng.

Project #: **WO#: 10508422**

PM: KNH **Due Date: 02/20/20**

CLIENT: Key Eng.

Courier: ☒Fed Ex ☐UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial **See Exception** ☐

Tracking Number: 1083 0284 6720

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

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☒Foam ☐None ☐Tin Can ☐Other:_____ **Temp Blank rec:** ☐Yes ☒No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** —

Thermometer Used: ☐G87A9170600254 ☐G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** —

Date & Initials of Person Examining Contents: 2-13-20 MJ

Type of ice Received ☐Blue ☐Wet ☒None

		Comments:
Chain of Custody Present?	☒Yes ☐No	1.
Chain of Custody Filled Out?	☒Yes ☐No	2.
Chain of Custody Relinquished?	☒Yes ☐No	3.
Sampler Name and/or Signature on COC?	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time?	☒Yes ☐No	5.
Short Hold Time Analysis (<72 hr)?	☐Yes ☒No	6.
Rush Turn Around Time Requested?	☐Yes ☒No	7.
Sufficient Volume?	☒Yes ☐No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	☒Yes ☐No ☒Yes ☐No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒Yes ☐No	10.
Media: (Air Can) Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒Yes ☐No	SS-7 CAN# WAS WRONG ON COC 12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒Yes ☐No	13.

Gauge # ☒10AIR26 ☐10AIR34 ☐10AIR35 ☐4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
SS-2	3654	1607	-9	+5					
SS-3	1544	1703	-2	+5					
SS-4	183	1626	-9	+5					
SS-6	1282	816	-9	+5					
SS-7	1049	1749	-9	+5					
SS-8	3017	1654	-9	+5					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kristen Hoffberg **Date:** 2/14/2020

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)