Remedial Action Documentation Report

2501 University Avenue, Madison
BRRTS #02-13-556991

Prepared for:

Lindholm Properties, LLC
Madison, Wisconsin 53705

January 2018

HireSmart®

Remedial Action Documentation Report

2501 University Avenue
Madison, Wisconsin

This report prepared by:

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Ayres Associates Project No. 19-0598.00
File: v:\env\final\19059800\university ave raor.docx

NR 712.09 SUBMITTAL CERTIFICATION

"I, Lynn L. Scherbert, hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to NR 726, Wis. Adm. Code."

Lynn L. Scherbert, PE, Supervisor - Environmental Services

March 28, 2017
Date

"I, Thomas P. Gaieck, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to NR 726, Wis. Adm. Code."

Thomas P. Gaieck, PG, Hydrogeologist

March 28, 2017
Date

Contents

List of Figures

List of Tables

List of Appendices

Executive Summary

This report presents results of remedial action conducted on the property located at 2501 University Avenue, Madison, Wisconsin. Environmental activities commenced on this property in November 2011 following a request made by the Wisconsin Department of Natural Resources (WDNR). WDNR was responding to contamination which had been detected as part of a hazardous materials assessment performed within the University Avenue right-of-way adjacent to this property. Contaminants of concern detected in the right-of-way consisted of volatile organic compounds (VOC), primarily chlorinated hydrocarbons. Subsequent assessment activities conducted on the 2501 University Avenue property, indicated concentrations of tetrachloroethene (PCE) in groundwater above NR 140 enforcement standards in a monitoring well installed adjacent to University Avenue. PCE and trichloroethene (TCE) were detected in soil vapors beneath the site at concentrations greater than sub-slab vapor risk screening levels (VRSL). Trace concentrations of PCE were detected in soil below the direct contact residual contaminant levels (RCL).

The site was recently redeveloped with a mixed commercial/residential use building and the property address re-numbered as 2505 University Avenue. In conjunction with redevelopment, remediation activities were conducted to mitigate subsurface contamination and prevent volatile organic soil vapor migration into the building.

A Remedial Action Options Report (RAOR), outlining proposed remediation and management of contaminated soil as well as mitigation of soil vapors, was prepared and submitted to the WDNR in April 2015. Environmental activities described in the RAOR included removal and off-site disposal of soil containing concentrations of VOCs. As part of the construction of the mixed-use building, a vapor mitigation system was proposed to exhaust vapors that may accumulate beneath the building. The vapor mitigation system was installed in accordance with the Soil Vapor Management Plan submitted to the WDNR in June 2015.

Remediation activities and site redevelopment was conducted between November 2015 and October 2016. A total of 1,656.61 tons of contaminated soil was removed from the site during excavation for the underground parking structure of the new building, and disposed at the Madison Prairie Landfill. Soil excavation for the construction of the new building resulted in removal of soil across the entire site to approximate depths of between 13 and 15 feet below surface. Confirmation soil samples collected from the sidewalls and bottom of the excavation indicate that soil with trace concentrations of PCE remains beneath the northeast portion of the property. This soil is currently capped by the concrete floor of the underground parking garage.

Following soil excavation, the vapor mitigation system was installed. The system consisted of a series of 4-inch diameter pipes laid horizontally beneath the floor of the underground parking structure and bedded in aggregate. A vapor barrier was placed over the aggregate to impede vertical migration of soil vapors beneath the underground parking garage. A vertical riser used to vent sub-slab vapors collected in the system was constructed adjacent to the elevator shaft and extended above the roof of the newly constructed building.

Communication testing was conducted on the vapor mitigation system and sub-slab and ambient air samples were collected on January 24, 2017. Communication testing showed a negative pressure differential across the floor slab indicating the vapor mitigation system was creating a vacuum and drawing vapors beneath the slab up the exhaust vent. Sub-slab vapors samples were collected from

each of the four sub-slab monitoring ports installed as part of the vapor mitigation system. Indoor air samples were collected in three apartments on the main level of the building above the parking structure. One outdoor air sample, representative of background conditions, was also collected. Each sample was submitted for analysis of tetrachloroethene and its breakdown products.

Sub-slab vapor analysis did not detect contaminants of concern at concentrations above the residential Vapor Risk Screening Levels (VRSL). Each of the indoor air samples contained tetrachloroethene at concentrations above the residential indoor air Vapor Action Level (VAL). Because the building was recently finished and portions of the building were being built out for commercial use, the concentrations of tetrachloroethene (PCE) are attributed to adhesives used during assembly of the interior finishes. Contaminants of concern were not detected during analysis of the outdoor air sample.

Three monitoring wells (MW-1R, MW-2R and MW-3R) were installed through the floor of the underground parking structure to replace wells previously installed at the site that had been abandoned prior to site redevelopment. Analysis of groundwater samples collected on January 24, 2017, from the replacement wells indicated PCE at concentrations above NR 140 enforcement standards. The concentration of PCE in MW-1R, 398 ug/L, was well below the concentration of 3,910 ug/L previously detected in MW-1.

Based upon remediation activities associated with site redevelopment, soil contaminated with VOC has been removed to the extent practical. The sub-slab vapor mitigation system is functioning as designed and withdrawing vapors from beneath the building and exhausting them above the roof line. The ventilation system in the underground parking garage along with the sub-slab soil vapor mitigation system that was installed will prevent vapor migration into the newly constructed building. Concentrations of PCE detected in indoor air samples are attributed to adhesives used during building construction and not soil vapor intrusion. Groundwater beneath the site contains PCE concentrations. Concentrations of PCE in groundwater sampled from MW-1R in January 2017 are well below the concentration previously detected in MW-1 in June 2012.

Closure of the site will require that the cap and sub-slab vapor mitigation system be properly maintained to prevent residual contamination from adversely affecting occupants of the building. Additional monitoring of the sub-slab mitigation system should be conducted during the first year of operation to assess any seasonal fluctuation in the system's performance or sub-slab vapor concentrations. An additional round of indoor air samples should also be collected to evaluate the PCE concentrations detected during the initial sampling round. One year of quarterly groundwater monitoring is recommended to assess trends in groundwater contaminant concentrations.

Acknowledgement

On behalf of Lindholm Properties, LLC, Ayres Associates would like to extend its sincere appreciation to the Wisconsin Economic Development Corporation (WEDC) and the Wisconsin Department of Natural Resources (WDNR) for their funding support and technical assistance. The WEDC graciously awarded Lindholm Properties, LLC grant funds to assist in funding the environmental activities outlined in this report. Moreover, the WDNR staff have been most helpful in providing technical guidance during the course of these environmental activities. Without this funding and technical support, redevelopment of this site would have been hindered and may have remained under developed indefinitely. We are indebted to these agencies for making financial assistance available for this important redevelopment project.

Introduction

The 2501 University Avenue property encompasses approximately 0.16-acre at the intersection of University and Highland Avenues in Madison, Wisconsin (Figure 1). This property and the adjacent 2509 University Avenue property (0.1-acre) were redeveloped with a three story multi-resident housing complex with approximately 1,900 square feet of ground floor commercial space and underground parking. The address for the property was subsequently re-numbered as 2505 University Avenue. Both of the 2501 and 2509 University Avenue properties had been occupied by mixed residential/commercial use buildings constructed in the early 1900s. Past tenants of 2501 University Avenue included super markets, a bootery, laundry, and drycleaner, and restaurants. The 2509 University Avenue property had been occupied by a barbershop since the 1960s.

A hazardous materials assessment conducted in March 2011 as preparation for reconstruction of University Avenue, indicated soil and groundwater contaminated with tetrachloroethene adjacent to 2501 University Avenue. Because of the historical use of 2501 University Avenue as a drycleaner, the WDNR requested that Lindholm Properties, LLC assess the extent of contamination detected adjacent to their property. Assessment activities were conducted between October 2011 and April 2014, prior to redevelopment of the property.

Results of assessment activities indicate that unconsolidated deposits beneath the property consist of up to 8 feet of clay underlain by sand and gravel till. Sandstone was encountered beneath the glacial deposits at depths between 11 and 21 feet below land surface. Groundwater was encountered between 20 and 25 feet below land surface.

Tetrachloroethene (PCE) was detected at concentrations below direct contact residual contaminant level (RCL) but above the groundwater protection RCL in soil samples collected from the site. Groundwater sampled from monitoring well MW-1 installed on the north side of the property adjacent to University Avenue, contained PCE at a concentration above the enforcement standard (ES). Soil vapor monitoring indicated concentrations of PCE above sub-slab vapor risk screening levels (VRSL).

A Remedial Action Options Report (RAOR) and Soil Vapor Management Plan was prepared and submitted to the Wisconsin Department of Natural Resources (WDNR) outlining the approach to remediation and management of contaminated soil and mitigation of volatile organic vapors in soil at the site. The RAOR and Soil Vapor Management Plan were approved by the WDNR in June 2015. Remediation activities were conducted in conjunction with site redevelopment and included excavation and disposal of soil containing concentrations of VOC and installation of a soil vapor mitigation system. Upon completion of site redevelopment, sub-slab vapor, indoor air, and groundwater monitoring activities were conducted. Site remediation conducted during redevelopment and subsequent monitoring activities are the subject of this report.

Remediation Activities

Contaminated Soil Removal

Ayres Associates observed and documented environmental activities associated with remediation of contaminated soil and installation of the soil vapor mitigation system on the 2501 University Avenue property. Soil remediation included removal and off-site disposal of soil containing VOC concentrations within the limits of excavation for the new building. The lateral extent of excavation for the construction of the new building encompassed the entire property. The excavation extended between 13 and 15 feet below ground surface which was the depth of the underground parking structure for the new building.

Soil removal activities were conducted between November 2015 and February 2016. Contaminated soil was encountered in the area of the former 2501 University Avenue building and in isolated areas around former monitoring wells MW-2 and MW-3. Figure 2 shows the site layout prior to construction and the area where VOC contaminated soil was removed.

A photoionization detector (PID) equipped with a 10.6 eV lamp was used to screen 73 soil samples during the course of excavation activities and assist with segregating contaminated soil for disposal. Select samples, RS-1 through RS-17 were submitted for VOC analysis to quantify contaminant concentrations in soil removed from the site. Most of these samples were collected beneath the area of the 2501 University Avenue building which was previously occupied by the dry cleaner. Confirmation soil samples, CS-1 though CS-28, collected from the bottom and the sidewalls of the entire building excavation were submitted for VOC analysis to document residual soil contamination around the periphery of and beneath the new building. The footprint of the new building and underground parking structure encompasses the entire property. A total of 1,656.61 tons of contaminated soil removed beneath the 2501 University Avenue property and disposed at the Madison Prairie Landfill.

Results of PID screening indicated slightly elevated readings in soil samples collected south of the former 2501 University Avenue building (S-43 through S-46, S-48, S-49, and S-73). None of the other soil samples indicated PID readings above 5 units and are considered to be background. Laboratory analysis detected trace concentrations of tetrachloroethene, trichlorethene, cis-1,2 dichloroethene and toluene in samples of soil removed from the site for landfill disposal. Confirmation soil samples collected from the bottom and sidewalls of the entire site excavation indicate trace concentrations of tetrachloroethene in soil beneath the floor of the current building at sample locations CS-4 and CS-22.

PID soil screening results are shown in Table 1. Results of soil sample analysis are summarized in Tables 2 and 3. Figure 3 shows the PID sample locations. Locations of samples representative of soil removed from the site and confirmation soil sample locations are shown Figures 4 and 5. Geologic cross sections of the site including the recently constructed building are presented on Figures 6 through 8. Appendix A contains the soil sample laboratory reports.

Soil Vapor Mitigation System Installation and Testing

A passive soil vapor mitigation system (SVMS) was installed beneath the floor of the underground parking structure of the newly constructed building. The system consists of piping installed in aggregate stone placed beneath the concrete floor slab connected to risers that extend above the building. A vapor barrier was installed between the top of the aggregate layer and the concrete floor slab. The vapor barrier prevents sub-slab vapors from migrating upward into the building. This causes vapors to

preferentially migrate through the aggregate and into the SVMS piping and safely discharge above the building. The SVMS in conjunction with the parking garage space and associated ventilation system beneath the commercial and residential areas of the building, provides protection to building occupants from sub-slab vapors. Figure 9 shows the layout of the SVMS.

Sub-slab vapor samples were collected from the four monitoring ports installed as part of the SVMS (V-1 through V-4) on January 24, 2017. The vapor monitoring ports were constructed of a perforated section of 1.5-inch schedule 40 PVC pipe installed within the sub-slab aggregate stone layer and beneath the vapor barrier. Solid 1.5-inch schedule 40 rigid PVC pipe extends through the vapor barrier and through the slab with appropriate penetration seals. The top of the probes terminated just below the surface of the garage floor. The probes were constructed with a valve-top to which monitoring equipment can be attached to measure the sub-slab soil vapor pressure and to sample potential vapors for analyses of potential contaminants. Flush-mounted metal valve-boxes were installed over the probes for protection against vehicle traffic and unauthorized access. Details of vapor probe construction are provided in the Soil Vapor Management Plan for the 2505 University Avenue development which has been previously submitted and approved by the Department.

Vapor samples were collected at each probe location in accordance with WDNR's July 2014 Sub-Slab Vapor Sampling Procedures guidance document RR-986. Prior to sampling, the Summa canister was vacuum checked and the sampling apparatus leak checked. The initial vacuum of the Summa canister was checked to verify the initial reading was greater than 25 inches of Hg. The sampling apparatus was tested to confirm a tight seal and a vacuum was applied to ensure a vapor sample could be drawn from the soil.

Soil vapor samples were subsequently collected in a Summa canister fitted with a controller to limit vapor flow to no more than 200mL/min. This flow rate resulted in a sampling period of 30 minutes to fill the canister. The sub-slab vapor samples were submitted to Pace Analytical Services for analysis of volatile organic compounds (VOC) of concern including tetrachloroethene, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene and vinyl chloride in accordance with EPA method TO-15. Results of sub-slab vapor sampling indicated low levels of tetrachlorethene at concentrations ranging between 2 and 8.9 micrograms per cubic meter (ug/m^3). These concentrations of tetrachloroethene are well below the residential sub-slab Vapor Risk Screening Level (VRSL) of 1,400 ug/m^3. None of the other contaminants of concern were detected above laboratory method detection limits.

Communication testing was also conducted during sub-slab vapor sampling activities to document the pressure gradient existing across the floor of the underground parking structure. Effective operation of the SVMS requires a negative pressure gradient from the indoor air to the aggregate material beneath the concrete slab. Communication testing was conducted with a micromanometer capable of measuring pressure differential to 0.1 pascal (Pa). Tubing from the micromanometer was connected to each of the four soil vapor monitoring ports and the pressure differential was measured. Pressure differential ranged between -0.9 Pa at V-4 to -0.1 Pa at V-1.

In conjunction with sub-slab sampling, indoor air samples were collected in three apartments on the main floor of the building above the parking garage (Figure 10). Samples are indicated as IA for indoor air with a numerical suffix indicating the apartment the sample was collected in. An outdoor air sample, OA 107, was collected from the balcony of apartment 107. Indoor and outdoor air samples were collected with a Summa canister fitted with a 24-hour flow controller placed at a height of between 5 and 6 feet above the apartment floor. Each air sample was submitted to Pace Analytical Services for

analysis of volatile organic compounds (VOC) of concern including tetrachloroethene, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene and vinyl chloride in accordance with EPA method TO-15. Tetrachloroethene was detected in each indoor air sample at concentrations above the residential indoor air Vapor Action Level (VAL). The concentration of tetrachloroethene ranged between 70.1 and 311 ug/m^3. None of the other compounds of concern were detected above laboratory method detection limits. The outdoor air sample did not contain contaminants of concern at concentrations above laboratory method detection limits.

Tables 4 and 5 summarizes the sub-slab vapor and air sample analytical results. Communication test results are summarized in Table 6. The soil vapor laboratory report is contained in Appendix A.

Groundwater Monitoring

Monitoring wells MW-1, MW-2, and MW-3 were abandoned in October 2015 prior to demolition of the former 2501 and 2509 University Avenue buildings. Replacement wells MW-1R, MW-2R, and MW-3R were installed on June 30, 2016, through the floor of the underground parking structure of the newly constructed 2505 University Avenue building (Figure 6). Groundwater samples were collected from the replacement wells on January 24, 2017, and submitted for laboratory analysis of VOC. Laboratory results indicated tetrachloroethene in each well at concentrations above enforcement standards. Laboratory results of groundwater samples are summarized in Table 7. The laboratory report for the January 2017 sampling event is contained in Appendix A.

Groundwater level and elevation data obtained from the monitoring wells on January 24, 2017, were used to estimate groundwater flow direction and gradient. Depth to water ranged from 7.57 feet in MW-2R to 8.12 feet below the floor of the underground parking structure in MW-3R (Table 7). Water levels were converted to elevations used to construct a water table contour map. Groundwater flow is generally northerly across the site, as illustrated in Figure 11. The average horizontal hydraulic gradient calculated for the water table aquifer was 0.0125.

Hydraulic Conductivity Testing

Hydraulic conductivity (slug) tests were performed on the three replacement monitoring wells MW-1R, MW-2R and MW-3R. The slug tests were performed by rapidly lowering a solid cylinder (slug) into the well to cause an instantaneous rise in water level (falling head test), then measuring the return of the water level to its static condition. A second test was performed by removing the slug (rising head test), and again measuring the response of the water level in the well. Water level data were recorded with an automated pressure transducer and data logger system. Slug test data were evaluated using Waterloo Hydrologic Aquifer Test v. 3 graphical analysis and reporting software. The slug tests were analyzed using the methods of Bouwer and Rice (1976)[1] for unconfined aquifers. Results of the slug tests are summarized in Table 8. Slug test data and test parameters are presented in Appendix B.

[1] Bouwer, H. and R.C. Rice, A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells, *Water Resources Research*, Vol.12, No.3, 1976, pp.423-428

Hydraulic conductivity values (recovery test only) calculated for the wells were 2.57 x 10^{-5} ft/sec in well MW-1R, 4.31 x 10^{-5} ft/sec in well MW-2R and 1.89 x 10^{-5} ft/sec in MW-3R. All three well were screened in sandstone.

Groundwater Flow Velocity

Groundwater flow velocity was calculated for the water table aquifer at this site using the formula:

$V = ki/n_e$

Where:

V = horizontal groundwater flow velocity

k = hydraulic conductivity

i = hydraulic gradient

n_e = effective porosity

An average hydraulic conductivity value of 2.92 x 10^{-5} ft/sec was used in calculating groundwater flow velocity in the water table aquifer. This value was obtained from slug tests performed on water table wells MW-1R, MW-2R and MW-3R on January 24, 2017 (Table 8).

The hydraulic gradient (i) used to calculate horizontal groundwater flow velocity is based on water levels measured on January 24, 2017. An average horizontal gradient of 0.0125 was used to calculate groundwater flow in the water table aquifer.

The velocity of groundwater is also influenced by the porosity of the aquifer material. The effective porosity (n_e) is a measure of the amount of interconnecting pore space that is available in a given volume of material through which water can move. The average effective porosity of the water table aquifer material is assumed to be 25 percent.

Based on the values stated above, the average horizontal groundwater flow velocity in the water table aquifer across the site is approximately 0.13 feet/day or 46 feet/year.

Conclusion and Recommendations

Based upon remediation activities conducted by Ayres Associates, no further environmental activities associated with VOC contaminated soil are required at the 2501 University Avenue site. Laboratory testing of representative soil samples collected during excavation activities, confirmation soil samples collected from the bottom and sidewalls of the excavation, and PID screening did not indicate VOC concentrations in soil are considered a direct contact risk. Laboratory results only indicated low levels of PCE at concentrations above the groundwater pathway RCL. Only two confirmation soil samples, collected from the bottom of the excavation, contained PCE concentrations above the groundwater RCL. A total of 1,656.61 tons of soil containing low level VOC concentrations was excavated and disposed off-site. Low levels of residual contamination in soil is capped beneath the underground parking floor slab of the new building.

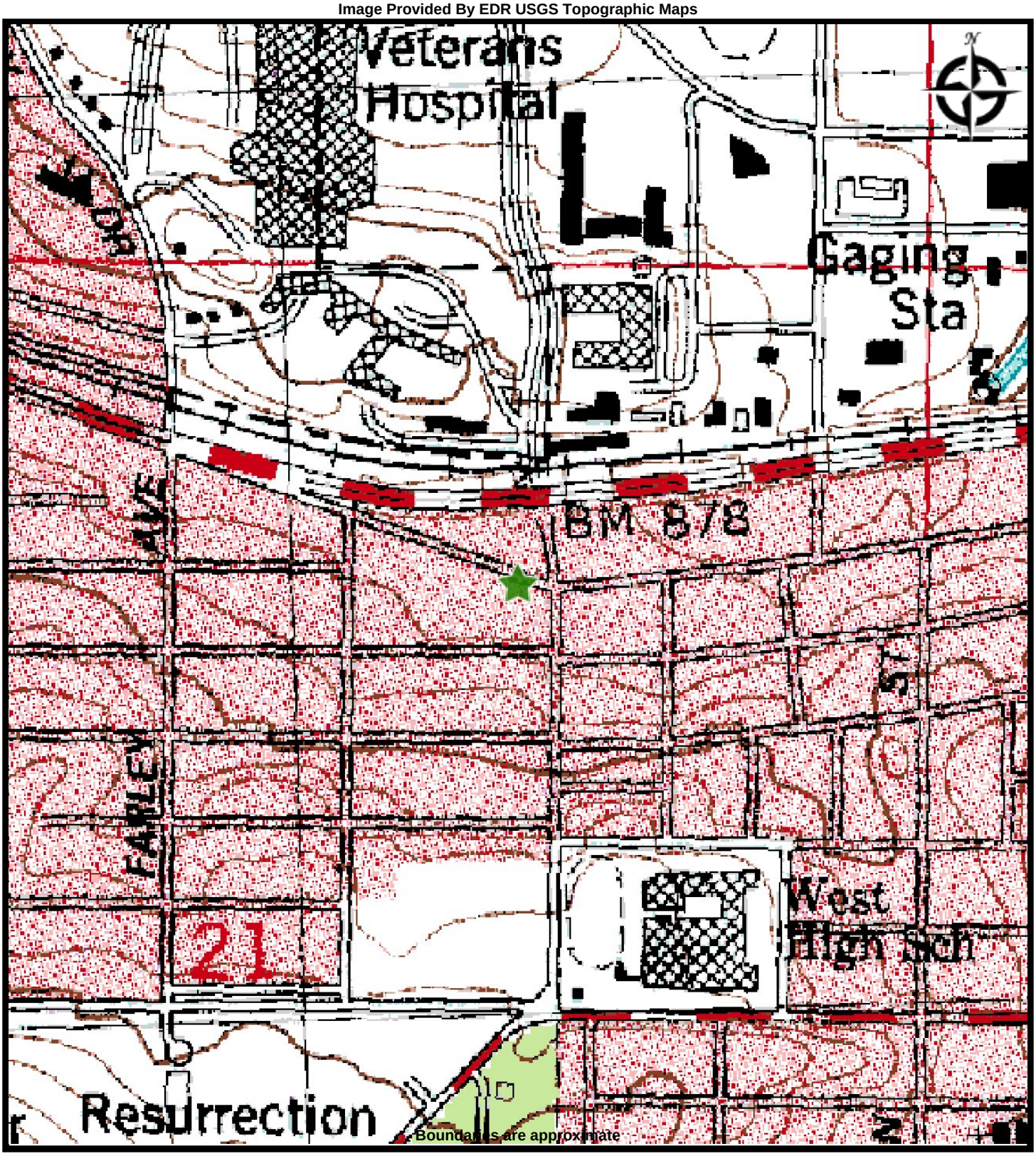
Groundwater samples collected from replacement monitoring wells indicate a decrease in PCE concentrations in groundwater sampled from the well located nearest to University Avenue (MW-1/MW-1R). Monitoring well MW-1 had previously contained the highest PCE concentrations in groundwater on the site. Additional monitoring data is needed to assess whether this is a decreasing trend in contaminant concentrations or a result of seasonal fluctuations.

A soil vapor mitigation system was installed to prevent accumulation of VOC in soil vapor beneath the newly constructed building. The system consists of a series of horizontal perforated pipes and a vertical riser that vents sub-slab vapors above the building roof line. Communication testing indicates that the system is producing a vacuum that is drawing soil vapors beneath the slab and up through the vertical riser. The initial round of sub-slab vapor samples collected from sampling ports installed through the concrete floor of the underground parking structure, indicate low levels of PCE at concentrations below the residential VRSL. Indoor air samples collected in unoccupied apartments directly above the underground parking structure indicated elevated concentrations of PCE. Based upon the low levels of PCE detected in the sub-slab vapors samples and because construction of the building had recently been completed, the PCE concentrations detected in indoor air samples are attributed to adhesives used to finish the interior of the building.

Ayres Associates recommends that additional groundwater monitoring be conducted to assess trends in groundwater contaminant concentrations. At a minimum four quarters of quarterly monitoring is necessary to apply for site closure if a stable or decreasing contaminant plume is indicated. The soil vapor mitigation system should be monitored and maintained. An additional round of sub-slab vapor samples should be collected to evaluate soil vapor contaminant concentrations beneath the building. Communication testing should also be conducted in conjunction with sub-slab vapor sampling to confirm a vacuum exists beneath the floor slab of the parking structure. The integrity of the floor of the underground parking structure should be maintained so that the SVMS operates properly and soil vapors don't migrate upward through the floor slab. An additional round of indoor air samples should be collected to verify that elevated PCE concentrations are not persistent and were the result of materials used during building construction and not from vapor intrusion.

Figures

Image Provided By EDR USGS Topographic Maps

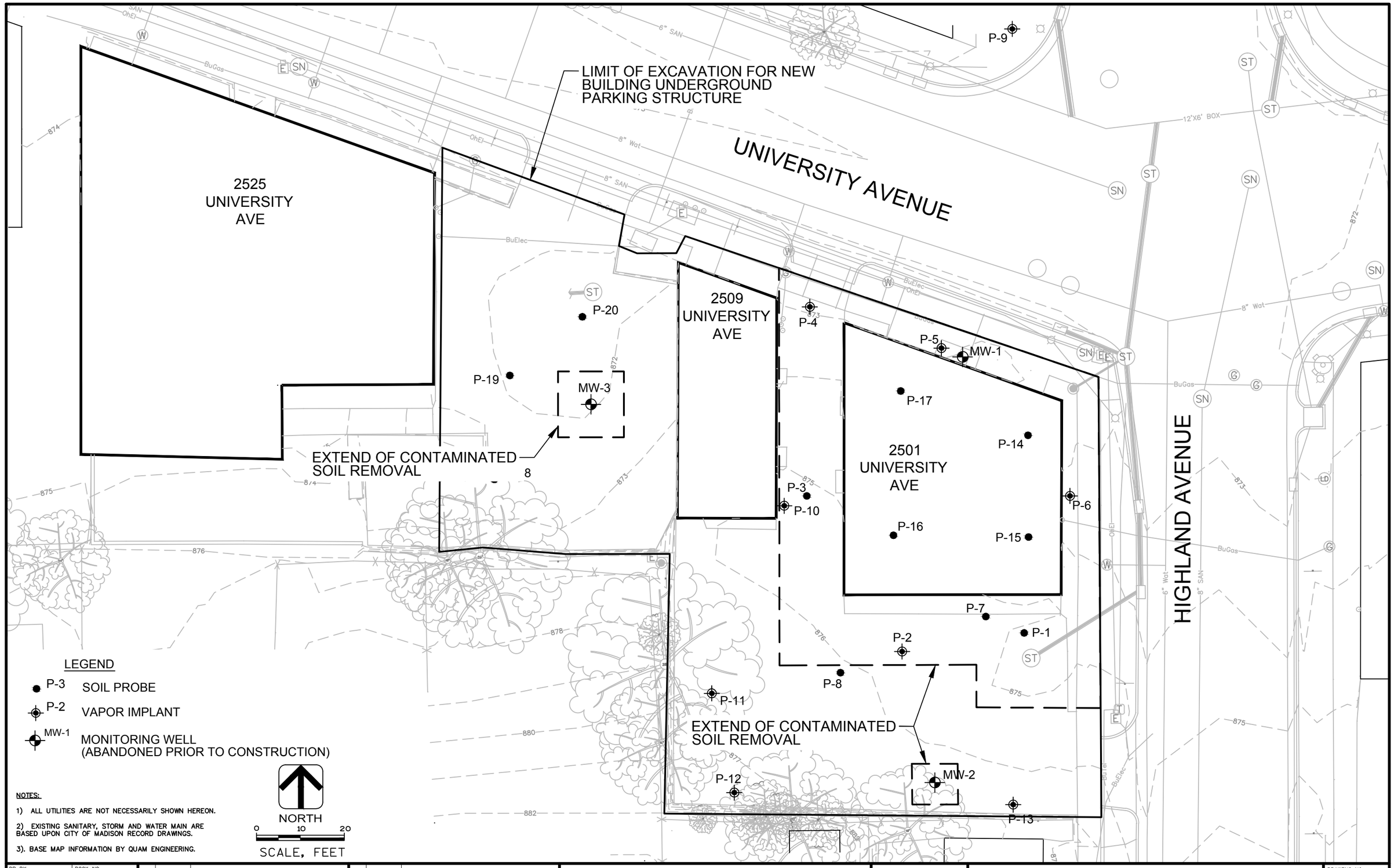


AYRES ASSOCIATES

SITE LOCATION MAP

2501 University Avenue
Madison WI 53705

PREPARED FOR: Lindholm Properties
PROJ. MGR: Tom Gaieck **DATE: 4/25/2014**
DRAWN BY: MCB **PROJ. #: 19-0309.30**



DR.BY T. SHUPERT	BOOK NO.	NO.	DATE	REVISION	NO.	DATE	REVISION
CHK.BY T. GAIECK	JOB NO. 19-0598.00						
DATE MARCH 2017	SCALE 1" = 20'						

EXTENT OF VOC CONTAMINATED SOIL REMOVAL

AYRES ASSOCIATES Madison, Wisconsin

2501 UNIVERSITY AVE, MADISON WISCONSIN

DRAWING NO. 2

LIMIT OF EXCAVATION FOR NEW BUILDING UNDERGROUND PARKING STRUCTURE

UNIVERSITY AVENUE

2525 UNIVERSITY AVE

2509 UNIVERSITY AVE

2501 UNIVERSITY AVE

HIGHLAND AVENUE

EXTEND OF CONTAMINATED SOIL REMOVAL

EXTEND OF CONTAMINATED SOIL REMOVAL

S-72 S-50 S-9 S-10 S-17 S-18 S-33 S-4 S-19 S-1 S-21 S-51 S-14-16 S-29 S-34 S-7 S-38 S-13 S-28 S-26 S-1 S-70 S-6 S-8 S-30 S-39 S-41 S-40 S-11 S-5 S-25 S-3 S-71 S-20 S-42 S-32 S-22 S-35 S-31 S-36 S-37 S-47 S-12 S-52 S-48 S-49 S-73 S-23 S-24 S-62 S-57 S-61 S-58 S-53 S-43-46 S-63 S-67 S-68 S-66 S-55 S-60 S-59 S-54 S-69 S-64 S-15

LEGEND

S-3 PID SCREENING SOIL SAMPLE

NORTH

0 10 20

NOTES:

1) ALL UTILITIES ARE NOT NECESSARILY SHOWN HEREON.

2) EXISTING SANITARY, STORM AND WATER MAIN ARE BASED UPON CITY OF MADISON RECORD DRAWINGS.

3). BASE MAP INFORMATION BY QUAM ENGINEERING.

DES BY	BOOK NO							PID SCREENING SAMPLE LOCATIONS	AYRES ASSOCIATES Eau Claire, Wisconsin	2501 UNIVERSITY AVE, MADISON WISCONSIN	SHEET NO. 3
DR BY TJS	PROJ NO 19-0598.00										
CHK BY	DATE MARCH 2017	NO	DATE	REVISION	NO	DATE	REVISION				

AA-Standard.stb
3/28/2017
V:\ENVCAD\Vapor Extraction\Lindholm Properties\March 2017.dwg, Layout: Pid Screening FIG 3

LIMIT OF EXCAVATION FOR NEW BUILDING UNDERGROUND PARKING STRUCTURE

UNIVERSITY AVENUE

2525 UNIVERSITY AVE

2509 UNIVERSITY AVE

2501 UNIVERSITY AVE

HIGHLAND AVENUE

RS-11
RS-3
RS-15
RS-13
RS-1
RS-2
RS-4
RS-5
RS-6
RS-9
RS-8
RS-10
RS-7
RS-12
RS-16
RS-14
RS-17

EXTEND OF CONTAMINATED SOIL REMOVAL

EXTEND OF CONTAMINATED SOIL REMOVAL

LEGEND

RS-3 REPRESENTATIVE SOIL SAMPLE

NOTES:

1) ALL UTILITIES ARE NOT NECESSARILY SHOWN HEREON.

2) EXISTING SANITARY, STORM AND WATER MAIN ARE BASED UPON CITY OF MADISON RECORD DRAWINGS.

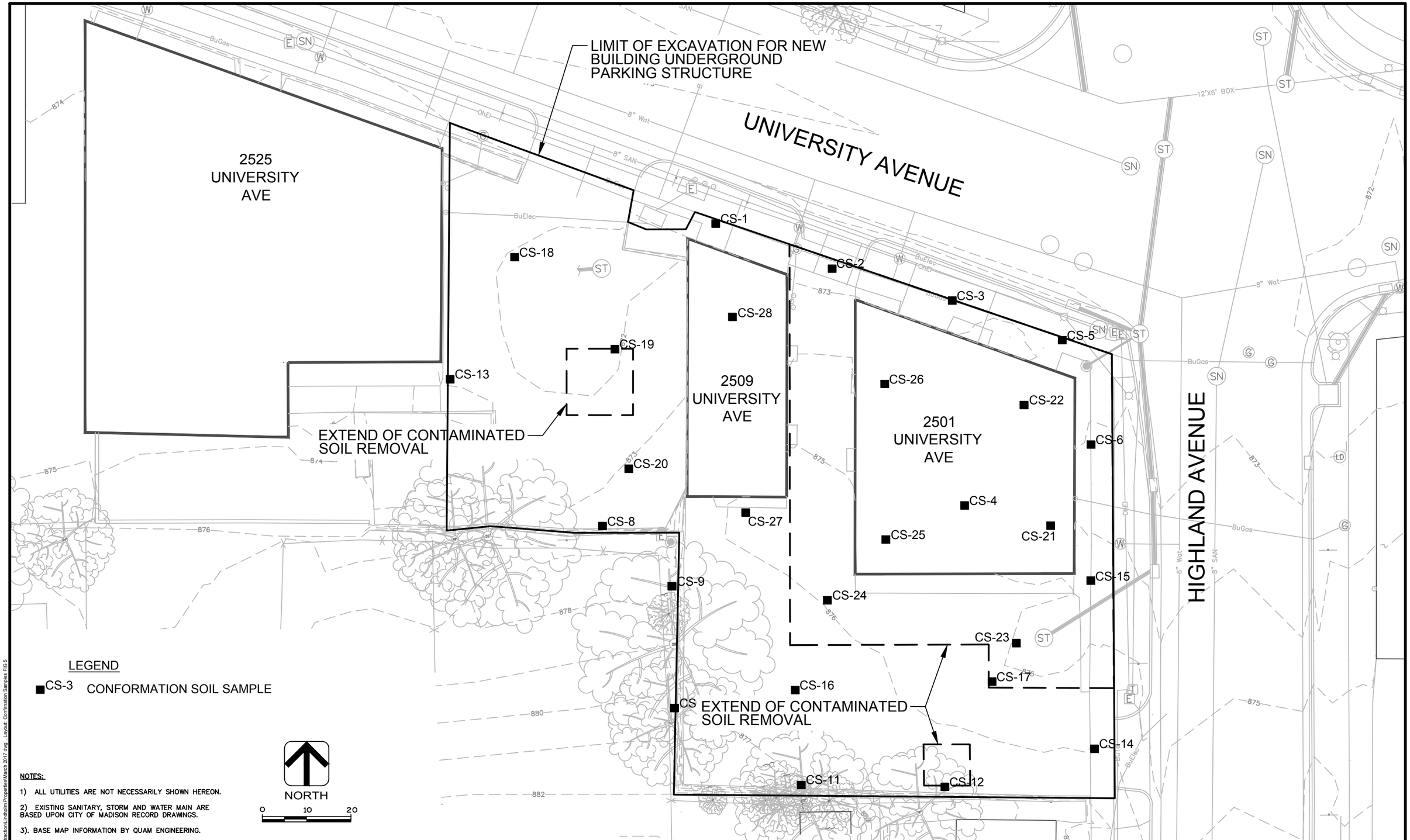
3). BASE MAP INFORMATION BY QUAM ENGINEERING.

NORTH

0 10 20

DES BY		BOOK NO							LOCATIONS OF SOIL SAMPLES REPRESENTATIVE OF SOIL REMOVED FROM EXCAVATION	SHEET NO.
DR BY	TJS	PROJ NO	19-0598.00						AYRES ASSOCIATES Eau Claire, Wisconsin	2501 UNIVERSITY AVE, MADISON WISCONSIN	4
CHK BY		DATE	APRIL 2016	NO	DATE	REVISION	NO	DATE	REVISION		

AA-Standard.stb
3/28/2017
V:\ENVCAD\Vigor Extraction\Lindholm Properties\March 2017.dwg, Layout: Soil Samples FIG 4



NOTES:

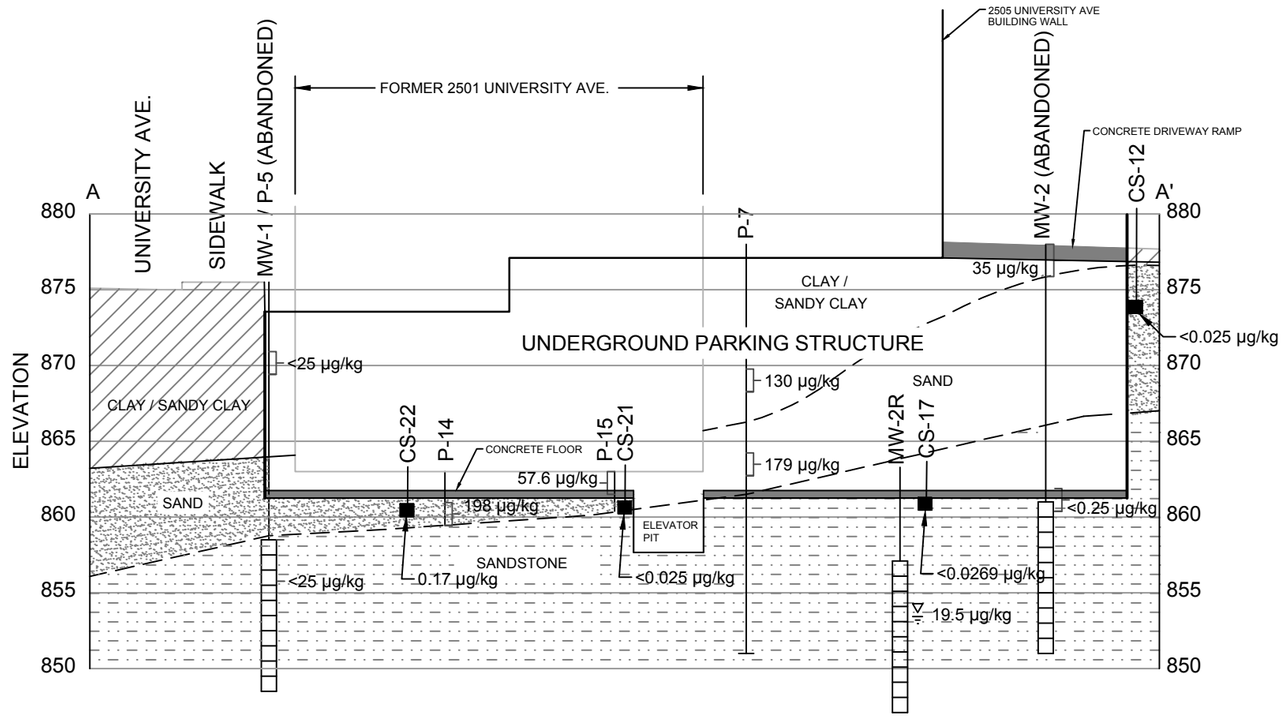
1) ALL UTILITIES ARE NOT NECESSARILY SHOWN HEREON.

2) EXISTING SANITARY, STORM AND WATER MAIN ARE BASED UPON CITY OF MADISON RECORD DRAWINGS.

3). BASE MAP INFORMATION BY QUAM ENGINEERING.

DES BY		BOOK NO							CONFIRMATION SOIL SAMPLE LOCATIONS	AYRES ASSOCIATES Eau Claire, Wisconsin	2501 UNIVERSITY AVE, MADISON WISCONSIN	SHEET NO. 5
DR BY	TJS	PROJ NO	19-0598.00									
CHK BY		DATE	APRIL 2016	NO	DATE	REVISION	NO	DATE	REVISION			

AA-Standard.stb
3/28/2017
V:\ENVCAD\Vigor Extraction\Lindholm Properties\March 2017.dwg, Layout: Confirmation Samples FIG 5



SECTION A - A'

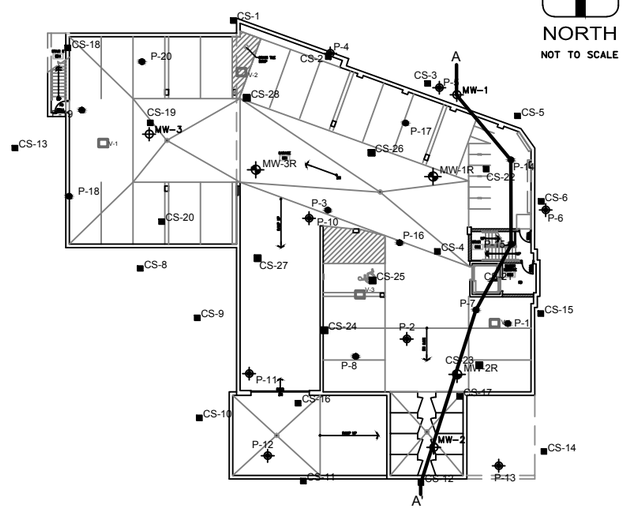
NOTE: SOIL TYPE SHADING WAS REMOVED WHERE SOIL EXCAVATION TOOK PLACE FOR UNDERGROUND PARKING STRUCTURE.

1"= 10'V

1"= 20'H

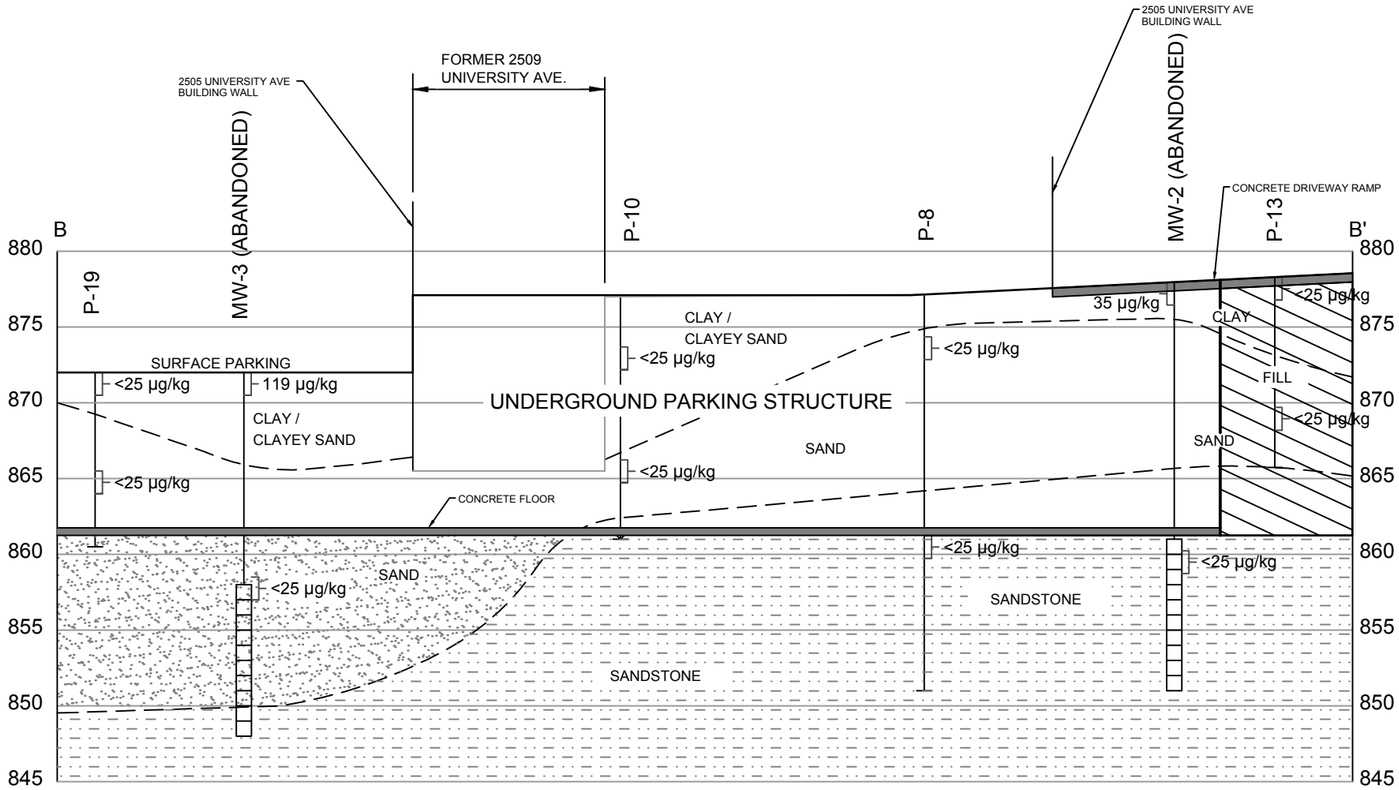
LEGEND

- 130 µg/kg — PCE CONCENTRATION ug/kg microgram per kilogram
- CS-16 — CONFIRMATION SOIL SAMPLE
- P-3 — SOIL PROBE
- P-2 — VAPOR IMPLANT
- MW-1 — MONITORING WELL
- MONITORING WELL SCREEN INTERVAL
- WATER LEVEL OBSERVED IN REPLACEMENT MONITORING WELL WITH PCE CONCENTRATIONS µg/L MICROGRAMS PER LITER (1/24/17)
- SOIL PROBE / BOREHOLE WITH SOIL SAMPLE PCE CONCENTRATIONS µg/kg MICROGRAMS PER KILOGRAM



CROSS SECTION LOCATION MAP

DR.BY T. SHUPERT	BOOK NO. _____	NO.	DATE	REVISION	GEOLOGIC CROSS SECTION A-A'	DRAWING NO. 6
CHK.BY T. GAIECK	JOB NO. 19-0598.00				AYRES ASSOCIATES Madison, Wisconsin	- 2501 UNIVERSITY AVE, MADISON WISCONSIN
DATE 3/2017	SCALE 1" = 20'					



SECTION B - B'

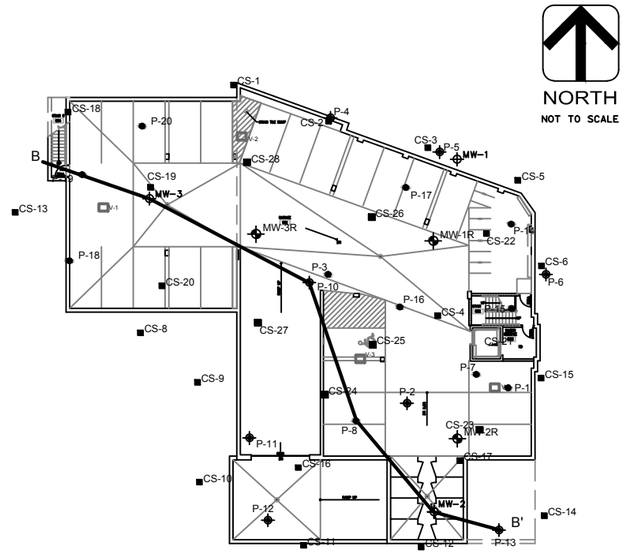
NOTE: SOIL TYPE SHADING WAS REMOVED WHERE SOIL EXCAVATION TOOK PLACE FOR UNDERGROUND PARKING STRUCTURE.

1"= 10'V

1"= 20'H

LEGEND

130 µg/kg	PCE CONCENTRATION ug/kg microgram per kilogram
CS-16	CONFIRMATION SOIL SAMPLE
P-3	SOIL PROBE
P-2	VAPOR IMPLANT
MW-1	MONITORING WELL
	MONITORING WELL SCREEN INTERVAL
	WATER LEVEL OBSERVED IN REPLACEMENT MONITORING WELL WITH PCE CONCENTRATIONS µg/L MICROGRAMS PER LITER (1/24/17)
	SOIL PROBE / BOREHOLE WITH SOIL SAMPLE PCE CONCENTRATIONS µg/kg MICROGRAMS PER KILOGRAM



CROSS SECTION LOCATION MAP

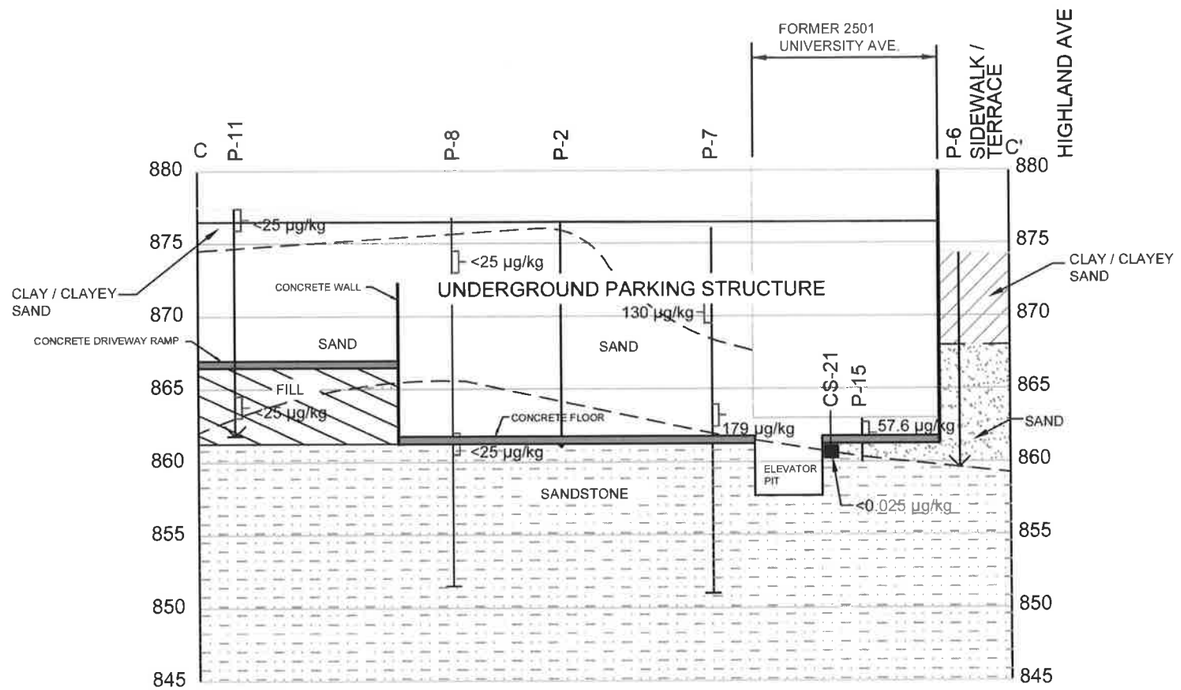
DR.BY T. SHUPERT	BOOK NO. ____	NO.	DATE	REVISION	NO.	DATE	REVISION
CHK.BY T. GAIECK	JOB NO. 19-0598.00						
DATE 3/2017	SCALE 1" = 20'						

GEOLOGIC CROSS SECTION B-B'

AYRES ASSOCIATES Madison, Wisconsin

2501 UNIVERSITY AVE, MADISON WISCONSIN

DRAWING NO. 7



SECTION C - C'

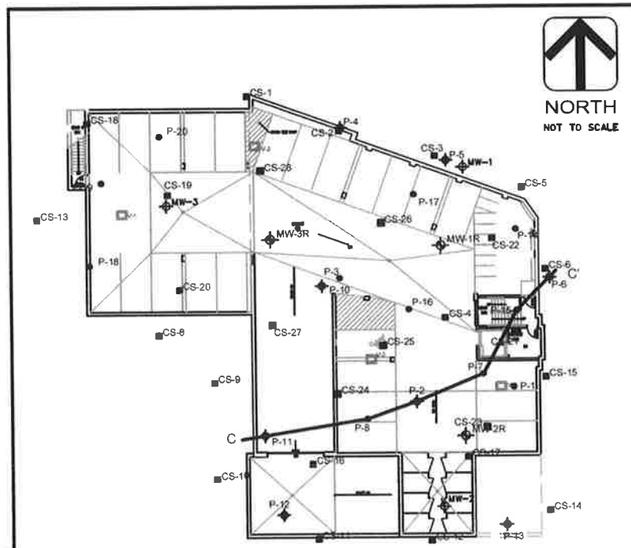
NOTE: SOIL TYPE SHADING WAS REMOVED WHERE SOIL EXCAVATION TOOK PLACE FOR UNDERGROUND PARKING STRUCTURE.

1"= 10'V

1"= 20'H

LEGEND

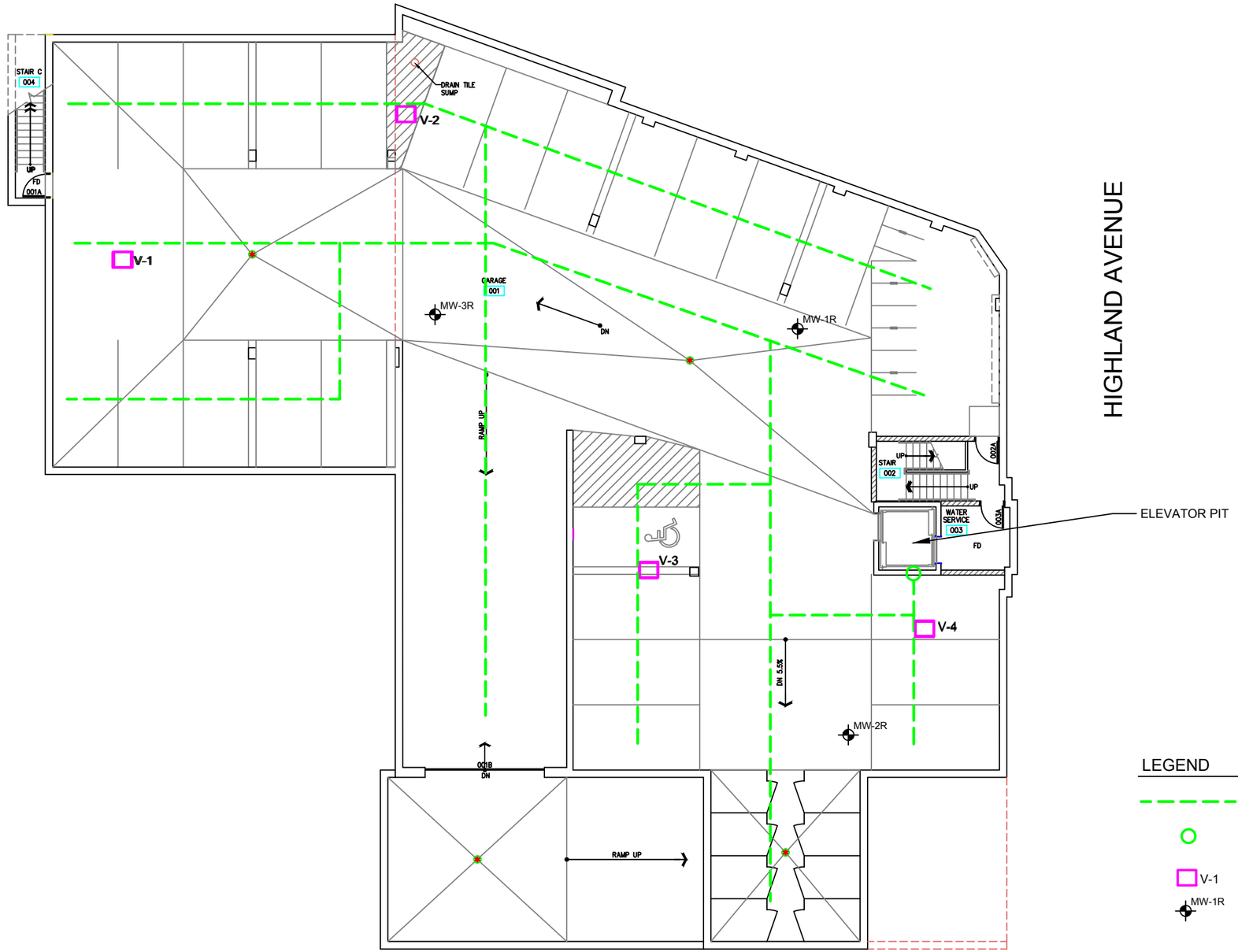
- 130 µg/kg — PCE CONCENTRATION ug/kg microgram per kilogram
- CS-16 — CONFIRMATION SOIL SAMPLE
- P-3 — SOIL PROBE
- P-2 — VAPOR IMPLANT
- MW-1 — MONITORING WELL
- MONITORING WELL SCREEN INTERVAL
- WATER LEVEL OBSERVED IN REPLACEMENT MONITORING WELL WITH PCE CONCENTRATIONS µg/L MICROGRAMS PER LITER (1/24/17)
- SOIL PROBE / BOREHOLE WITH SOIL SAMPLE PCE CONCENTRATIONS µg/kg MICROGRAMS PER KILOGRAM



CROSS SECTION LOCATION MAP

DR. BY T. SHUPERT	BOOK NO.		GEOLOGIC CROSS SECTION C-C	AYRES ASSOCIATES Madison, Wisconsin	2501 UNIVERSITY AVE, MADISON WISCONSIN	DRAWING NO. 8
CHK. BY T. GAIECK	JOB NO. 19-0598.00					
DATE 3/2017	SCALE 1" = 20'	NO. DATE REVISION	REVISION			

UNIVERSITY AVENUE



NORTH

0 10 20

1/16" = 1'

LEGEND

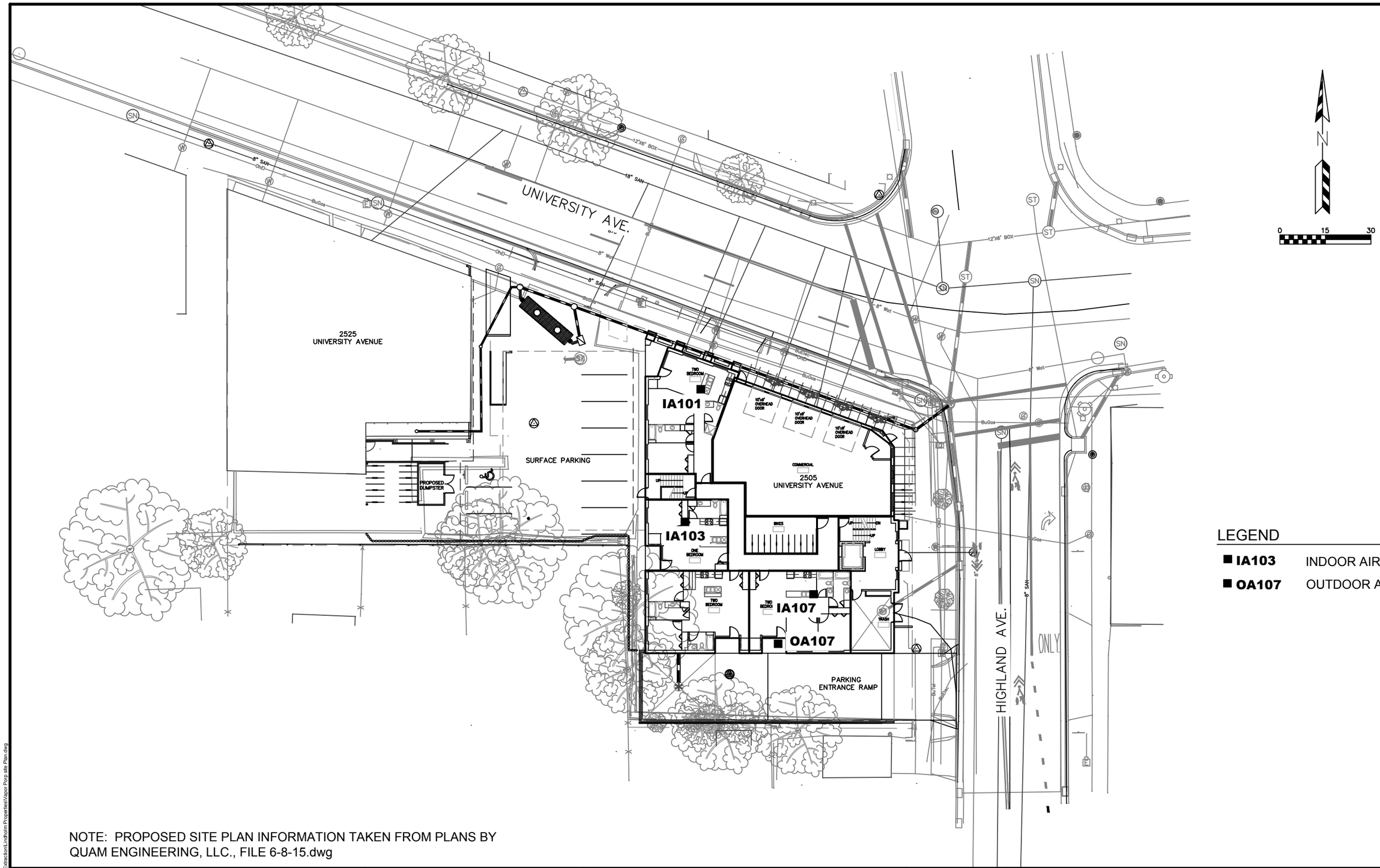
- 4" DIA PERFORATED SCH 40 PVC PIPE
- 4" VERTICAL SCH 40 PVC RISER PIPE TO ROOF VENT
- V-1 — SOIL VAPOR PROBE
- MW-1R — MONITORING WELL

NOTES:

1. SITE DRAWING FROM GARY BRINK & ASSOCIATES ARCHITECTS, SHEET A2.00 UNDERGROUND PARKING PLAN.

DES BY B. PEOTTER	BOOK NO							2501 UNIVERSITY AVENUE MADISON, WISCONSIN	AYRES ASSOCIATES ####	SOIL VAPOR MANAGEMENT SYSTEM AND MONITORING WELL LOCATIONS	SHEET NO 9
DR BY T. SHUPERT	PROJ NO 19-0598.00										
CHK BY B. PEOTTER	DATE JUNE 2015	NO	DATE	REVISION	NO	DATE	REVISION				

AA-Standard.stb
3/28/2017
V:\ENVCAD\Vapor Extraction\Lindholm Properties\Vapor Management Plan.dwg



LEGEND

■ **IA103**	INDOOR AIR
■ **OA107**	OUTDOOR AIR

NOTE: PROPOSED SITE PLAN INFORMATION TAKEN FROM PLANS BY QUAM ENGINEERING, LLC., FILE 6-8-15.dwg

DES BY T. GAIECK	BOOK NO								2501 UNIVERSITY AVENUE MADISON WISCONSIN FIRST FLOOR PLAN	AVRES ASSOCIATES Eau Claire, Wisconson	AMBIENT AIR SAMPLES LOCATIONS	SHEET NO
DR BY T. SHUPERT	PROJ NO 19-0309.40											10
CHK BY T. GAIECK	DATE FEBRUARY 2017	NO	DATE	REVISION	NO	DATE	REVISION					

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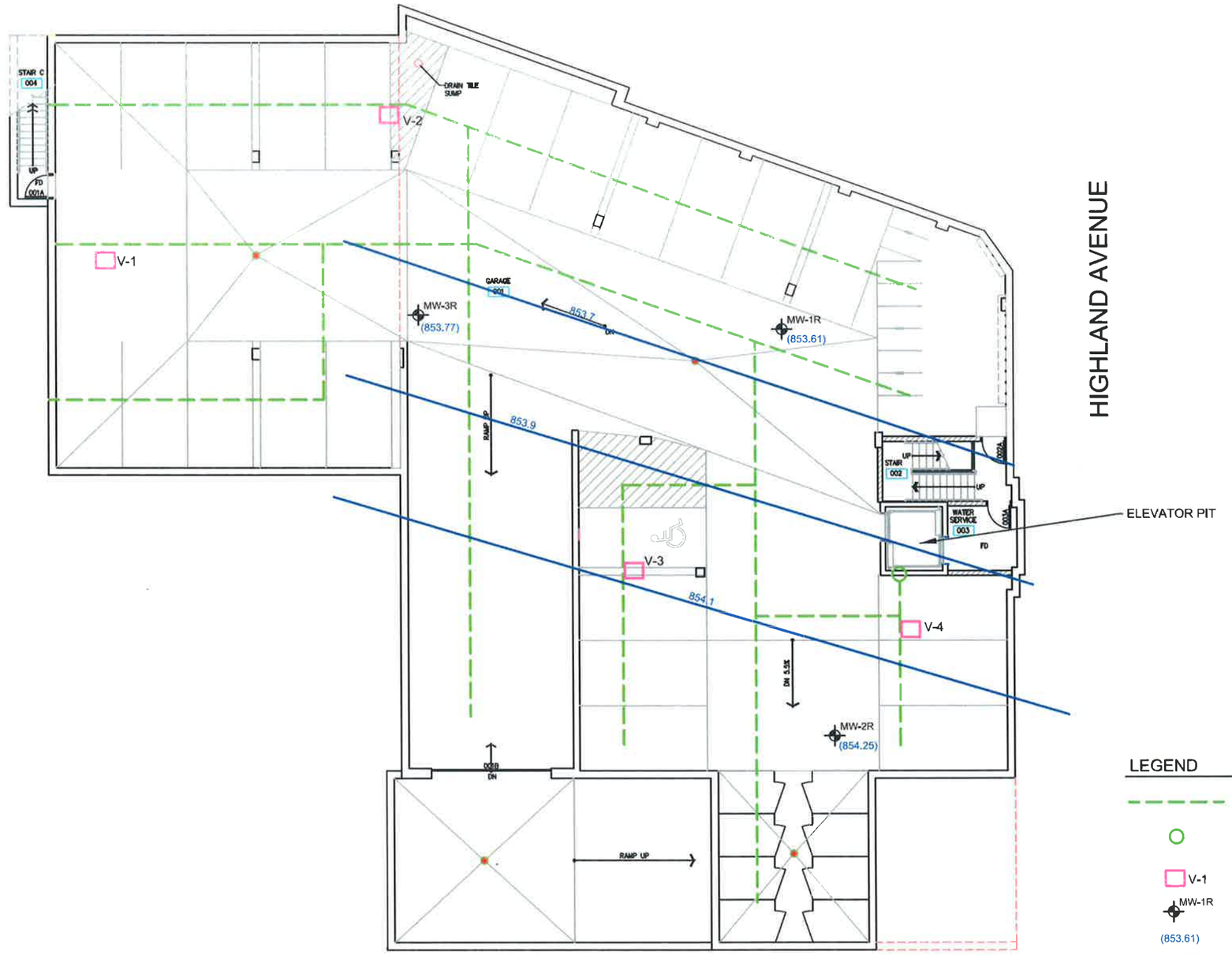
3/28/2017
V:\ENVCAD\Vapor Extraction\Lindholm Properties\Vapor Prop site Plan.dwg

UNIVERSITY AVENUE

HIGHLAND AVENUE



NORTH

0 10 20

1/16" = 1'

LEGEND

- 4" DIA PERFORATED SCH 40 PVC PIPE
- 4" VERTICAL SCH 40 PVC RISER PIPE TO ROOF VENT
- V-1 — SOIL VAPOR PROBE
- MW-1R — MONITORING WELL
- (853.61) — GROUNDWATER ELEVATION
- 853.9 — GROUNDWATER CONTOUR

NOTES:

1. SITE DRAWING FROM GARY BRINK & ASSOCIATES ARCHITECTS, SHEET A2.00 UNDERGROUND PARKING PLAN.

DES BY	B. PEOTTER	BOOK NO						2501 UNIVERSITY AVENUE MADISON, WISCONSIN	AYRES ASSOCIATES ####	GROUNDWATER CONTOUR MAP 1/24/17	SHEET NO 11
DR BY	T. SHUPERT	PROJ NO	19-0598.00								
CHK BY	B. PEOTTER	DATE	JUNE 2015	NO	DATE	REVISION	NO	DATE	REVISION		

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1/30/2018
J:\ENV\CAD\Wood Excavation\Include\ Properties\Vapor Management Plan.dwg

Tables

Table 1
2501 University Avenue
Soil Excavation PID Readings
11/2015-2/2016

ID	Depth (ft)	PID Reading	Location
S-1	8	0.4	Beneath sewer north of 2501 University Ave
S-2	5	0.5	Beneath 2509 University Ave building
S-3	4	0.4	Beneath 2509 University Ave building
S-4	6	0.5	Beneath sewer north of 2509 University Ave
S-5	4	0.4	Alley between 2501 and 2509 University Ave
S-6	6	0.3	Alley between 2501 and 2509 University Ave
S-7	3	0.5	West parking lot
S-8	3	0.4	West parking lot
S-9	2	1.2	North end of west parking lot
S-10	4	3.1	North end of west parking lot
S-11	10	0.9	NE corner 2501 University Ave
S-12	10	1.5	SE corner 2501 University Ave
S-13	10	1.4	NW corner 2501 University Ave
S-14	3	0.2	North end of west parking lot
S-15	6	0.0	North end of west parking lot
S-16	4	5.7	North end of west parking lot
S-17	6	0.2	North of 2509 University Ave
S-18	6	0.3	North of 2509 University Ave
S-19	6	1.0	North end of alley between 2501 and 2509 University Ave
S-20	3	0.5	SW of 2509 University Ave
S-21	6	1.3	North of 2501 University Ave
S-22	3	0.4	SW of 2509 University Ave
S-23	8	3.5	SE corner 2501 University Ave
S-24	6	2.1	SE corner 2501 University Ave
S-25	5	0.1	West parking lot
S-26	3	0.5	West parking lot
S-27	5	4.3	West parking lot
S-28	3	2.7	West parking lot
S-29	9	1.3	North of 2509 University Ave
S-30	11	3.1	North of 2501 University Ave
S-31	2	0.5	SW of 2509 University Ave
S-32	13	2.1	East Central 2501 University Ave
S-33	12	0.5	North end of 2509 University Ave
S-34	12	0.5	North end of 2509 University Ave
S-35	6	0.2	SW of 2509 University Ave
S-36	6	0.2	SW of 2509 University Ave
S-37	6	0.2	SW of 2509 University Ave
S-38	11	0.6	North of 2501 University Ave

Table 1 (Cont.)
2501 University Avenue
Soil Excavation PID Readings
11/2015-2/2016

ID	Depth (ft)	PID Reading	Location
S-39	11	0.3	North of 2501 University Ave
S-40	12	0.2	North of 2501 University Ave
S-41	12	2.2	NW corner 2501 University Ave
S-42	12	1.2	SW corner 2501 University Ave
S-43	3	7.8	SE of 2501 University Ave
S-44	5	11.3	SE of 2501 University Ave
S-45	5	12.2	SE of 2501 University Ave
S-46	3	18.8	SE of 2501 University Ave
S-47	12	0.6	SW corner 2501 University Ave
S-48	12	8.6	SW of 2501 University Ave
S-49	12	10.1	South of 2501 University Ave
S-50	4	0.2	West parking lot
S-51	4	0.1	West parking lot
S-52	2	0.3	South of 2509 University Ave
S-53	3	0.0	South of 2509 University Ave
S-54	2	0.0	South of 2509 University Ave
S-55	6	0.0	South of 2509 University Ave
S-56	6	0.1	South of 2509 University Ave
S-57	8	0.5	South of 2509 University Ave
S-58	8	0.1	South of 2509 University Ave
S-59	8	0.1	South of 2509 University Ave
S-60	12	0.0	South of 2509 University Ave
S-61	12	0.0	South of 2509 University Ave
S-62	15	0.0	South of 2509 University Ave
S-63	15	0.0	South of 2509 University Ave
S-64	3	0.0	SE of 2501 University Ave
S-65	3	0.0	SE of 2501 University Ave
S-66	2	0.2	South of 2501 University Ave
S-67	2	0.2	South of 2501 University Ave
S-68	4	0.0	South of 2501 University Ave
S-69	8	0.0	South of 2501 University Ave
S-70	9	0.2	2509 University Ave
S-71	9	0.1	SE 2509 Universty Ave
S-72	4	2.0	North end of west parking lot
S-73	13	35.5	SE of 2501 University Ave

PID sample locations are shown on Figure 3

Table 2
Summary of Laboratory Analytical Results
Soil Samples Representative of Soil Removed from the Excavation
2501 University Avenue, Madison

	Analytical Result (mg/kg)										Soil Standards (6/2016)		
Sample ID	**RS-1**	**RS-2**	**RS-3**	**RS-4**	**RS-5**	**RS-6**	**RS-7**	**RS-8**	**RS-9**	**RS-10**			
Depth	8'	8'	8'	8'	5'	5'	2'	9'	9'	9'			
Soil Type	Sand	Sand	Sand	Sand	Clay	Clay	Clay	Sand	Sand	Sand			
Date	11/25/2015	11/25/2015	11/25/2015	11/25/2015	11/25/2015	11/25/2015	12/4/2015	12/4/2015	12/4/2015	12/4/2015			
	Analytical Result (mg/kg)										NR 720 DC RCL[1]		GW RCL[2]
Volatile Organics[3]											**Non-Industrial**	**Industrial**	
cis-1,2-Dichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	156	2040	0.0412
Tetrachloroethene	<0.025	*0.0619*	<0.025	*0.0313*	*0.175*	*0.175*	<0.025	*0.188*	*0.158*	*0.0758*	30.7	153	0.0045
Trichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.26	8.81	0.0036
Toluene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	818	818	1.1072

BOLD	Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for *industrial* direct contact.
Bold	Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for *non-industrial* direct contact.
Italics	Concentration exceeds NR 720 Wisconsin Administrative Code Protection of Groundwater *Residual Contaminant Level* (RCL).
<	Concentration less than laboratory method detection limit.
mg/Kg	Concentration reported as milligrams per kilogram, equivalent to parts per million (ppm).

[1]NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL)

[2]NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for protection of groundwater.

[3]Table includes summary of VOC detected during analysis, see lab data sheets for complete list of analytes.

Table 2
Summary of Laboratory Analytical Results
Soil Samples Representative of Soil Removed from the Excavation
2501 University Avenue, Madison

	Analytical Result (mg/kg)											Soil Standards (6/2016)		
Sample ID	**RS-11**	**RS-12**	**RS-13**	**RS-14**	**RS-15**	**RS-16**	**RS-17**							
Depth	4'	10'	5'	7'	9'	3'	3'							
Soil Type	Sand	Sand	Sand	Sand	Sand	Clay	Clay							
Date	12/4/2015	12/11/2015	12/17/2015	1/22/2016	12/11/2015	12/11/2015	12/21/2015							
	Analytical Result (mg/kg)											NR 720 DC RCL[1]		GW RCL[2]
Volatile Organics[3]												**Non-Industrial**	**Industrial**	
cis-1,2-Dichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	*0.0419*					156	2040	0.0412
Tetrachloroethene	<0.025	*0.0853*	<0.025	*0.085*	<0.025	*0.0379*	*0.335*					30.7	153	0.0045
Trichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	*0.0398*					1.26	8.81	0.0036
Toluene	<0.025	<0.025	<0.025	0.0837	<0.025	<0.025	<0.025					818	818	1.1072

BOLD	Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for *industrial* direct contact.
Bold	Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for *non-industrial* direct contact.
Italics	Concentration exceeds NR 720 Wisconsin Administrative Code Protection of Groundwater *Residual Contaminant Level* (RCL).
<	Concentration less than laboratory method detection limit.
mg/Kg	Concentration reported as milligrams per kilogram, equivalent to parts per million (ppm).

[1]NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL)
[2]NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for protection of groundwater.
[3]Table includes summary of VOC detected during analysis, see lab data sheets for complete list of analytes.

Table 3
Summary of Laboratory Analytical Results
Confirmation Soil Samples
2501 University Avenue, Madison

	Analytical Result (mg/kg)											Soil Standards (6/2016)		
Sample ID	**CS-1**	**CS-2**	**CS-3**	**CS-4**	**CS-5**	**CS-6**	**CS-7**	**CS-8**	**CS-9**	**CS-10**	**CS-11**			
Depth	8'	10'	5'	15'	5'	5'	8'	10'	10'	8'	8'			
Soil Type	Sand	Sand	Clay	Sand	Clay	Clay	Sand	Sand	Sand	Sand	Sand			
Date	12/11/2015	12/11/2015	12/11/2015	12/11/2015	12/11/2015	12/11/2015	12/17/2015	12/17/2015	12/29/2015	12/29/2015	12/29/2015			
	Analytical Result (mg/kg)											NR 720 DC RCL[1]		GW RCL[2]
Volatile Organics[3]												**Non-Industrial**	**Industrial**	
cis-1,2-Dichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	156	2040	0.0412
Tetrachloroethene	<0.025	<0.025	<0.025	*0.107*	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	30.7	153	0.0045
Trichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.26	8.81	0.0036

BOLD	Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for *industrial* direct contact.
Bold	Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for *non-industrial* direct contact.
Italics	Concentration exceeds NR 720 Wisconsin Administrative Code Protection of Groundwater *Residual Contaminant Level* (RCL).
<	Concentration less than laboratory method detection limit.
mg/Kg	Concentration reported as milligrams per kilogram, equivalent to parts per million (ppm).

[1]NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL)

[2]NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for protection of groundwater.

[3]Table includes summary of VOC detected during analysis, see lab data sheets for complete list of analytes.

Table 3
Summary of Laboratory Analytical Results
Confirmation Soil Samples
2501 University Avenue, Madison

	Analytical Result (mg/kg)											Soil Standards (12/2016)		
Sample ID	**CS-12**	**CS-13**	**CS-14**	**CS-15**	**CS-16**	**CS-17**	**CS-18**	**CS-19**	**CS-20**	**CS-21**	**CS-22**			
Depth	5'	5'	8'	10'	18'	18'	14'	14'	14'	15'	15'			
Soil Type	Clay	Clay	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand			
Date	1/6/2016	1/5/2016	1/6/2016	1/6/2016	1/6/2016	1/6/2016	1/15/2016	12/15/2016	12/15/2016	1/22/2016	1/22/2016			
	Analytical Result (mg/kg)											**NR 720 DC RCL[1]**		**GW RCL[2]**
Volatile Organics[3]												**Non-Industrial**	**Industrial**	
cis-1,2-Dichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0269	<0.025	<0.025	<0.025	<0.025	<0.025	156	2040	0.0412
Tetrachloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0269	<0.025	<0.025	<0.025	<0.025	*0.17*	30.7	153	0.0045
Trichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0269	<0.025	<0.025	<0.025	<0.025	<0.025	1.26	8.81	0.0036

BOLD	Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for *industrial* direct contact.
Bold	Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for *non-industrial* direct contact.
Italics	Concentration exceeds NR 720 Wisconsin Administrative Code Protection of Groundwater *Residual Contaminant Level* (RCL).
<	Concentration less than laboratory method detection limit.
mg/Kg	Concentration reported as milligrams per kilogram, equivalent to parts per million (ppm).

[1]NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL)

[2]NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for protection of groundwater.

[3]Table includes summary of VOC detected during analysis, see lab data sheets for complete list of analytes.

Table 3
Summary of Laboratory Analytical Results
Confirmation Soil Samples
University Avenue, Madison

	Analytical Result (mg/kg)						Soil Standards (6/2016)		
Sample ID	**CS-23**	**CS-24**	**CS-25**	**CS-26**	**CS-27**	**CS-28**			
Depth	15'	15'	15'	15'	15'	15'			
Soil Type	Sand	Sand	Sand	Sand	Sand	Sand			
Date	5/17/2016	5/17/2016	5/17/2016	5/17/2016	5/17/2016	5/17/2016			
	Analytical Result (mg/kg)						**NR 720 DC RCL[1]**		**GW RCL[2]**
Volatile Organics[3]							**Non-Industrial**	**Industrial**	
cis-1,2-Dichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0269	156	2040	0.0412
Tetrachloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0269	30.7	153	0.0045
Trichloroethene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0269	1.26	8.81	0.0036

BOLD	Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for *industrial* direct contact.
Bold	Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for *non-industrial* direct contact.
Italics	Concentration exceeds NR 720 Wisconsin Administrative Code Protection of Groundwater *Residual Contaminant Level* (RCL).
<	Concentration less than laboratory method detection limit.
mg/Kg	Concentration reported as milligrams per kilogram, equivalent to parts per million (ppm).

[1]NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL)

[2]NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for protection of groundwater.

[3]Table includes summary of VOC detected during analysis, see lab data sheets for complete list of analytes.

Table 4
Sub-Slab Vapor Analytical Table
2505 University Avenue, Madison

VOC-EPA Method TO-15

	V-1	V-2	V-3	V-4	Vapor Risk Screening Level Residential Sub-Slab (ug/m3)
Date	1/24/2017	1/24/2017	1/24/2017	1/24/2017	
cis-1,2-Dichloroethene	<0.43	<0.41	<0.4	<0.45	NE
trans-1,2-Dichloroethene	<0.67	<0.65	<0.62	<0.7	NE
Tetrachloroethene	2.0	8.9	3.8	6.8	1,400
Trichloroethene	<0.48	<0.46	<0.44	<0.51	70
Vinyl Chloride	<0.34	<0.33	<0.31	<0.36	57

Residential Sub-Slab Vapor Risk Screening Levels Calculated Using Values on the US EPA Regional Screening Level Table, May 2016

BOLD soil vapor concentration detected above Residential Sub-Slab Screening Level

NE screening level not established

ug/m^3 results reported in micrograms per cubic meter

Table 5
Ambient Air Analytical Table
2505 University Avenue, Madison

VOC-EPA Method TO-15

					Vapor Action Level
	IA 101	IA 103	IA 107	OA 107	Residential Indoor Air (ug/m3)
Date	1/24/2017	1/24/2017	1/24/2017	1/24/2017	
cis-1,2-Dichloroethene	<0.37	<0.38	<0.38	<0.35	NE
trans-1,2-Dichloroethene	<0.57	<0.6	<0.6	<0.55	NE
Tetrachloroethene	**213**	**70.1**	**311**	<0.4	42
Trichloroethene	<0.41	<0.43	<0.43	<0.4	2.1
Vinyl Chloride	<0.29	<0.3	<0.3	<0.28	1.7

Residential Indoor Air Vapor Action Levels Calculated Using Values on the US EPA Regional Screening Level Table, May 2016

BOLD ambient air concentration detected above Residential Indoor Air Vapor Action Level

NE action level not established

ug/m^3 results reported in micrograms per cubic meter

IA indoor air sample

OA outdoor air sample

Table 6
2501 University Avenue
SVMS Communication Test Results

Vapor Probe	Date	Pressure (Pa)
V-1	1/24/2017	-0.1
V-2	1/24/2017	-0.1
V-3	1/24/2017	-0.5
V-4	1/24/2017	-0.9

results reported in Pascals (Pa)

Table 7
2501 University Avenue
Groundwater Analytical Results

Volatile Organic Compounds (VOCs)

	Date	Chloro methane	Tetrachloro ethene
MW-1	6/15/2012	<12	**3,910**
MW-1R	1/24/2017	<2	**398**
MW-2	6/15/2012	0.54	0.93
MW-2R	1/24/2017	<0.5	**19.5**
MW-3	6/15/2012	0.53	3.4
MW-3R	1/24/2017	<0.5	**35.8**
Trip Blank	6/15/2012	<0.24	<0.45
	1/24/2017	<0.5	<0.5
PREVENTIVE ACTION LIMIT		**NE**	**0.5**
ENFORCEMENT STANDARD		**NE**	**5**

BOLD = exceeds NR 140 Wis Adm Code enforcement standards

results reported in micrograms per liter (ug/L)

Table 8
Summary of Hydraulic Conductivity Test Results
2501 University Avenue
Madison, Wisconsin

Well/Test Number[1]	Hydraulic Conductivity[2] (ft/sec)	Hydraulic Conductivity[3] (cm/sec)	Material Surrounding Screen
MW-1R Slug Out	2.57×10^{-5}	7.83×10^{-4}	Sandstone
MW-2R Slug In	2.48×10^{-5}	7.55×10^{-4}	Sandstone
MW-2R Slug Out	4.31×10^{-5}	1.31×10^{-3}	Sandstone
MW-3R Slug In	1.63×10^{-5}	4.96×10^{-4}	Sandstone
MW-3R Slug Out	1.89×10^{-5}	5.76×10^{-4}	Sandstone

Notes:
[1]Slug out test = rising head test
[2]ft/sec = hydraulic conductivity in units of feet per second
[3]cm/sec = hydraulic conductivity in units of centimeters per second

Appendix A

Laboratory Report

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 03, 2015

Tom Gaieck
Ayres & Associates, Inc
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: UNIVERSITY AVE
Pace Project No.: 40125392

Dear Tom Gaieck:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40125392001	**RS-1**	Solid	11/25/15 10:10	12/01/15 08:40
40125392002	**RS-2**	Solid	11/25/15 10:15	12/01/15 08:40
40125392003	**RS-3**	Solid	11/25/15 10:25	12/01/15 08:40
40125392004	**RS-4**	Solid	11/25/15 10:35	12/01/15 08:40
40125392005	**RS-5**	Solid	11/25/15 10:45	12/01/15 08:40
40125392006	**RS-6**	Solid	11/25/15 11:00	12/01/15 08:40
40125392007	**MEOH BLANK**	Solid	11/25/15 00:00	12/01/15 08:40

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40125392001	**RS-1**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40125392002	**RS-2**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40125392003	**RS-3**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40125392004	**RS-4**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40125392005	**RS-5**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40125392006	**RS-6**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40125392007	**MEOH BLANK**	EPA 8260	SMT	64	PASI-G

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40125392001	**RS-1**					
ASTM D2974-87	Percent Moisture	7.3	%	0.10	12/01/15 15:57	
40125392002	**RS-2**					
EPA 8260	Tetrachloroethene	61.9J	ug/kg	64.7	12/02/15 13:08	
ASTM D2974-87	Percent Moisture	7.3	%	0.10	12/01/15 15:59	
40125392003	**RS-3**					
ASTM D2974-87	Percent Moisture	16.5	%	0.10	12/01/15 15:59	
40125392004	**RS-4**					
EPA 8260	Tetrachloroethene	31.3J	ug/kg	64.8	12/02/15 13:31	
ASTM D2974-87	Percent Moisture	7.4	%	0.10	12/01/15 15:59	
40125392005	**RS-5**					
EPA 8260	Tetrachloroethene	175	ug/kg	66.7	12/02/15 13:54	
ASTM D2974-87	Percent Moisture	10.0	%	0.10	12/01/15 15:59	
40125392006	**RS-6**					
EPA 8260	Tetrachloroethene	179	ug/kg	64.9	12/02/15 14:17	
ASTM D2974-87	Percent Moisture	7.6	%	0.10	12/01/15 15:59	

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: RS-1 **Lab ID: 40125392001** Collected: 11/25/15 10:10 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	75-25-2	L3,W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/02/15 07:30	12/02/15 18:08	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/02/15 07:30	12/02/15 18:08	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/02/15 07:30	12/02/15 18:08	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/02/15 07:30	12/02/15 18:08	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/02/15 07:30	12/02/15 18:08	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: RS-1 **Lab ID: 40125392001** Collected: 11/25/15 10:10 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/02/15 07:30	12/02/15 18:08	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/02/15 07:30	12/02/15 18:08	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 18:08	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	99	%	49-157		1	12/02/15 07:30	12/02/15 18:08	1868-53-7	
Toluene-d8 (S)	104	%	61-148		1	12/02/15 07:30	12/02/15 18:08	2037-26-5	
4-Bromofluorobenzene (S)	87	%	53-134		1	12/02/15 07:30	12/02/15 18:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.3**	%	0.10	0.10	1		12/01/15 15:57		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: RS-2 **Lab ID: 40125392002** Collected: 11/25/15 10:15 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	75-25-2	L3,W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/02/15 07:30	12/02/15 13:08	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/02/15 07:30	12/02/15 13:08	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/02/15 07:30	12/02/15 13:08	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/02/15 07:30	12/02/15 13:08	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/02/15 07:30	12/02/15 13:08	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: RS-2 **Lab ID: 40125392002** Collected: 11/25/15 10:15 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	79-34-5	W
Tetrachloroethene	**61.9J**	ug/kg	64.7	27.0	1	12/02/15 07:30	12/02/15 13:08	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/02/15 07:30	12/02/15 13:08	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/02/15 07:30	12/02/15 13:08	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:08	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	97	%	49-157		1	12/02/15 07:30	12/02/15 13:08	1868-53-7	
Toluene-d8 (S)	105	%	61-148		1	12/02/15 07:30	12/02/15 13:08	2037-26-5	
4-Bromofluorobenzene (S)	88	%	53-134		1	12/02/15 07:30	12/02/15 13:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.3**	%	0.10	0.10	1		12/01/15 15:59		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: RS-3 **Lab ID: 40125392003** Collected: 11/25/15 10:25 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	75-25-2	L3,W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/02/15 07:30	12/02/15 11:35	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/02/15 07:30	12/02/15 11:35	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/02/15 07:30	12/02/15 11:35	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/02/15 07:30	12/02/15 11:35	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/02/15 07:30	12/02/15 11:35	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: RS-3 **Lab ID: 40125392003** Collected: 11/25/15 10:25 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/02/15 07:30	12/02/15 11:35	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/02/15 07:30	12/02/15 11:35	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 11:35	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	49-157		1	12/02/15 07:30	12/02/15 11:35	1868-53-7	
Toluene-d8 (S)	108	%	61-148		1	12/02/15 07:30	12/02/15 11:35	2037-26-5	
4-Bromofluorobenzene (S)	90	%	53-134		1	12/02/15 07:30	12/02/15 11:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.5**	%	0.10	0.10	1		12/01/15 15:59		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: RS-4 **Lab ID: 40125392004** Collected: 11/25/15 10:35 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	75-25-2	L3,W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/02/15 07:30	12/02/15 13:31	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/02/15 07:30	12/02/15 13:31	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/02/15 07:30	12/02/15 13:31	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/02/15 07:30	12/02/15 13:31	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/02/15 07:30	12/02/15 13:31	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: RS-4 **Lab ID: 40125392004** Collected: 11/25/15 10:35 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	79-34-5	W
Tetrachloroethene	**31.3J**	ug/kg	64.8	27.0	1	12/02/15 07:30	12/02/15 13:31	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/02/15 07:30	12/02/15 13:31	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/02/15 07:30	12/02/15 13:31	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:31	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	49-157		1	12/02/15 07:30	12/02/15 13:31	1868-53-7	
Toluene-d8 (S)	103	%	61-148		1	12/02/15 07:30	12/02/15 13:31	2037-26-5	
4-Bromofluorobenzene (S)	86	%	53-134		1	12/02/15 07:30	12/02/15 13:31	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.4**	%	0.10	0.10	1		12/01/15 15:59		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: RS-5 **Lab ID: 40125392005** Collected: 11/25/15 10:45 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	75-25-2	L3,W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/02/15 07:30	12/02/15 13:54	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/02/15 07:30	12/02/15 13:54	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/02/15 07:30	12/02/15 13:54	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/02/15 07:30	12/02/15 13:54	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/02/15 07:30	12/02/15 13:54	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: RS-5 **Lab ID: 40125392005** Collected: 11/25/15 10:45 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	79-34-5	W
Tetrachloroethene	**175**	ug/kg	66.7	27.8	1	12/02/15 07:30	12/02/15 13:54	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/02/15 07:30	12/02/15 13:54	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/02/15 07:30	12/02/15 13:54	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 13:54	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	49-157		1	12/02/15 07:30	12/02/15 13:54	1868-53-7	
Toluene-d8 (S)	103	%	61-148		1	12/02/15 07:30	12/02/15 13:54	2037-26-5	
4-Bromofluorobenzene (S)	85	%	53-134		1	12/02/15 07:30	12/02/15 13:54	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.0**	%	0.10	0.10	1		12/01/15 15:59		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: RS-6 **Lab ID: 40125392006** Collected: 11/25/15 11:00 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	75-25-2	L3,W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/02/15 07:30	12/02/15 14:17	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/02/15 07:30	12/02/15 14:17	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/02/15 07:30	12/02/15 14:17	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/02/15 07:30	12/02/15 14:17	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/02/15 07:30	12/02/15 14:17	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: RS-6 **Lab ID: 40125392006** Collected: 11/25/15 11:00 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	79-34-5	W
Tetrachloroethene	**179**	ug/kg	64.9	27.0	1	12/02/15 07:30	12/02/15 14:17	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/02/15 07:30	12/02/15 14:17	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/02/15 07:30	12/02/15 14:17	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 14:17	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	97	%	49-157		1	12/02/15 07:30	12/02/15 14:17	1868-53-7	
Toluene-d8 (S)	103	%	61-148		1	12/02/15 07:30	12/02/15 14:17	2037-26-5	
4-Bromofluorobenzene (S)	89	%	53-134		1	12/02/15 07:30	12/02/15 14:17	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.6**	%	0.10	0.10	1		12/01/15 15:59		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: MEOH BLANK **Lab ID: 40125392007** Collected: 11/25/15 00:00 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	75-25-2	L3,W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/02/15 07:30	12/02/15 10:49	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/02/15 07:30	12/02/15 10:49	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/02/15 07:30	12/02/15 10:49	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/02/15 07:30	12/02/15 10:49	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/02/15 07:30	12/02/15 10:49	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Sample: MEOH BLANK **Lab ID: 40125392007** Collected: 11/25/15 00:00 Received: 12/01/15 08:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/02/15 07:30	12/02/15 10:49	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/02/15 07:30	12/02/15 10:49	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/02/15 07:30	12/02/15 10:49	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	84	%	49-157		1	12/02/15 07:30	12/02/15 10:49	1868-53-7	
Toluene-d8 (S)	88	%	61-148		1	12/02/15 07:30	12/02/15 10:49	2037-26-5	
4-Bromofluorobenzene (S)	82	%	53-134		1	12/02/15 07:30	12/02/15 10:49	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVE
Pace Project No.: 40125392

QC Batch: MSV/31486 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40125392001, 40125392002, 40125392003, 40125392004, 40125392005, 40125392006, 40125392007

METHOD BLANK: 1267077 Matrix: Solid
Associated Lab Samples: 40125392001, 40125392002, 40125392003, 40125392004, 40125392005, 40125392006, 40125392007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	12/02/15 08:51	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	12/02/15 08:51	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	12/02/15 08:51	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	12/02/15 08:51	
1,1-Dichloroethane	ug/kg	<17.6	50.0	12/02/15 08:51	
1,1-Dichloroethene	ug/kg	<17.6	50.0	12/02/15 08:51	
1,1-Dichloropropene	ug/kg	<14.0	50.0	12/02/15 08:51	
1,2,3-Trichlorobenzene	ug/kg	34.3J	50.0	12/02/15 08:51	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	12/02/15 08:51	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	12/02/15 08:51	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	12/02/15 08:51	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	12/02/15 08:51	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	12/02/15 08:51	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	12/02/15 08:51	
1,2-Dichloroethane	ug/kg	<15.0	50.0	12/02/15 08:51	
1,2-Dichloropropane	ug/kg	<16.8	50.0	12/02/15 08:51	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	12/02/15 08:51	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	12/02/15 08:51	
1,3-Dichloropropane	ug/kg	<12.0	50.0	12/02/15 08:51	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	12/02/15 08:51	
2,2-Dichloropropane	ug/kg	<12.6	50.0	12/02/15 08:51	
2-Chlorotoluene	ug/kg	<15.8	50.0	12/02/15 08:51	
4-Chlorotoluene	ug/kg	<13.0	50.0	12/02/15 08:51	
Benzene	ug/kg	<9.2	20.0	12/02/15 08:51	
Bromobenzene	ug/kg	<20.6	50.0	12/02/15 08:51	
Bromochloromethane	ug/kg	<21.4	50.0	12/02/15 08:51	
Bromodichloromethane	ug/kg	<9.8	50.0	12/02/15 08:51	
Bromoform	ug/kg	<19.8	50.0	12/02/15 08:51	
Bromomethane	ug/kg	<69.9	250	12/02/15 08:51	
Carbon tetrachloride	ug/kg	<12.1	50.0	12/02/15 08:51	
Chlorobenzene	ug/kg	<14.8	50.0	12/02/15 08:51	
Chloroethane	ug/kg	<67.0	250	12/02/15 08:51	
Chloroform	ug/kg	<46.4	250	12/02/15 08:51	
Chloromethane	ug/kg	<20.4	50.0	12/02/15 08:51	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	12/02/15 08:51	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	12/02/15 08:51	
Dibromochloromethane	ug/kg	<17.9	50.0	12/02/15 08:51	
Dibromomethane	ug/kg	<19.3	50.0	12/02/15 08:51	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	12/02/15 08:51	
Diisopropyl ether	ug/kg	<17.7	50.0	12/02/15 08:51	
Ethylbenzene	ug/kg	<12.4	50.0	12/02/15 08:51	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVE
Pace Project No.: 40125392

METHOD BLANK: 1267077 Matrix: Solid
Associated Lab Samples: 40125392001, 40125392002, 40125392003, 40125392004, 40125392005, 40125392006, 40125392007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	37.0J	50.0	12/02/15 08:51	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	12/02/15 08:51	
m&p-Xylene	ug/kg	<34.4	100	12/02/15 08:51	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	12/02/15 08:51	
Methylene Chloride	ug/kg	<16.2	50.0	12/02/15 08:51	
n-Butylbenzene	ug/kg	15.2J	50.0	12/02/15 08:51	
n-Propylbenzene	ug/kg	<11.6	50.0	12/02/15 08:51	
Naphthalene	ug/kg	<40.0	250	12/02/15 08:51	
o-Xylene	ug/kg	<14.0	50.0	12/02/15 08:51	
p-Isopropyltoluene	ug/kg	<12.0	50.0	12/02/15 08:51	
sec-Butylbenzene	ug/kg	<11.9	50.0	12/02/15 08:51	
Styrene	ug/kg	<9.0	50.0	12/02/15 08:51	
tert-Butylbenzene	ug/kg	<9.5	50.0	12/02/15 08:51	
Tetrachloroethene	ug/kg	<12.9	50.0	12/02/15 08:51	
Toluene	ug/kg	<11.2	50.0	12/02/15 08:51	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	12/02/15 08:51	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	12/02/15 08:51	
Trichloroethene	ug/kg	<23.6	50.0	12/02/15 08:51	
Trichlorofluoromethane	ug/kg	<24.7	50.0	12/02/15 08:51	
Vinyl chloride	ug/kg	<21.1	50.0	12/02/15 08:51	
4-Bromofluorobenzene (S)	%	85	53-134	12/02/15 08:51	
Dibromofluoromethane (S)	%	88	49-157	12/02/15 08:51	
Toluene-d8 (S)	%	99	61-148	12/02/15 08:51	

LABORATORY CONTROL SAMPLE: 1267078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2440	98	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2710	109	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2780	111	70-130	
1,1-Dichloroethane	ug/kg	2500	2370	95	70-130	
1,1-Dichloroethene	ug/kg	2500	2330	93	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	2160	86	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2410	97	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2750	110	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2550	102	70-130	
1,2-Dichloroethane	ug/kg	2500	2380	95	70-134	
1,2-Dichloropropane	ug/kg	2500	2850	114	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2490	100	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2540	102	70-130	
Benzene	ug/kg	2500	2410	96	70-130	
Bromodichloromethane	ug/kg	2500	2800	112	70-130	
Bromoform	ug/kg	2500	3300	132	48-130	L0
Bromomethane	ug/kg	2500	2260	91	70-169	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVE
Pace Project No.: 40125392

LABORATORY CONTROL SAMPLE: 1267078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2390	95	67-130	
Chlorobenzene	ug/kg	2500	2650	106	70-130	
Chloroethane	ug/kg	2500	1820	73	70-191	
Chloroform	ug/kg	2500	2400	96	70-130	
Chloromethane	ug/kg	2500	1950	78	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2380	95	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2880	115	70-130	
Dibromochloromethane	ug/kg	2500	2700	108	65-130	
Dichlorodifluoromethane	ug/kg	2500	1520	61	12-150	
Ethylbenzene	ug/kg	2500	2570	103	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2440	98	70-130	
m&p-Xylene	ug/kg	5000	5300	106	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2460	98	70-130	
Methylene Chloride	ug/kg	2500	2420	97	70-131	
o-Xylene	ug/kg	2500	2600	104	70-130	
Styrene	ug/kg	2500	2510	101	70-130	
Tetrachloroethene	ug/kg	2500	2810	112	70-130	
Toluene	ug/kg	2500	2670	107	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2480	99	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2620	105	65-130	
Trichloroethene	ug/kg	2500	2710	108	70-130	
Trichlorofluoromethane	ug/kg	2500	1980	79	50-150	
Vinyl chloride	ug/kg	2500	2230	89	67-134	
4-Bromofluorobenzene (S)	%			90	53-134	
Dibromofluoromethane (S)	%			91	49-157	
Toluene-d8 (S)	%			100	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1267079 1267080

Parameter	Units	40125392003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1500	1500	1240	1290	83	86	63-130	4	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1500	1500	1510	1490	101	100	57-136	1	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1500	1500	1580	1560	105	104	70-130	1	20	
1,1-Dichloroethane	ug/kg	<25.0	1500	1500	1310	1330	88	89	62-131	1	23	
1,1-Dichloroethene	ug/kg	<25.0	1500	1500	1160	1230	78	82	42-137	5	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1500	1500	1440	1340	96	89	59-137	8	21	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1500	1500	1450	1340	97	90	33-150	8	25	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1500	1500	1490	1630	99	109	70-130	9	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1500	1500	1480	1420	99	95	70-130	4	20	
1,2-Dichloroethane	ug/kg	<25.0	1500	1500	1300	1370	87	91	68-134	5	20	
1,2-Dichloropropane	ug/kg	<25.0	1500	1500	1620	1650	108	110	70-130	2	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1500	1500	1420	1390	95	93	70-130	2	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1500	1500	1490	1430	99	95	69-130	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVE
Pace Project No.: 40125392

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1267079 1267080

Parameter	Units	40125392003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1500	1500	1320	1380	88	92	56-131	4	20	
Bromodichloromethane	ug/kg	<25.0	1500	1500	1530	1600	102	107	64-130	5	20	
Bromoform	ug/kg	<25.0	1500	1500	1810	1810	121	121	48-130	0	20	
Bromomethane	ug/kg	<69.9	1500	1500	1160	1180	77	79	18-169	2	23	
Carbon tetrachloride	ug/kg	<25.0	1500	1500	1140	1210	76	81	59-130	6	20	
Chlorobenzene	ug/kg	<25.0	1500	1500	1450	1490	97	100	70-130	3	20	
Chloroethane	ug/kg	<67.0	1500	1500	889	953	59	64	10-191	7	20	
Chloroform	ug/kg	<46.4	1500	1500	1320	1350	89	91	65-130	2	20	
Chloromethane	ug/kg	<25.0	1500	1500	889	928	59	62	36-132	4	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1500	1500	1250	1340	83	89	59-136	7	24	
cis-1,3-Dichloropropene	ug/kg	<25.0	1500	1500	1570	1630	105	109	60-130	4	20	
Dibromochloromethane	ug/kg	<25.0	1500	1500	1540	1530	103	102	59-130	1	20	
Dichlorodifluoromethane	ug/kg	<25.0	1500	1500	551	609	37	41	10-150	10	27	
Ethylbenzene	ug/kg	<25.0	1500	1500	1340	1370	90	92	64-130	2	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1500	1500	1280	1310	85	87	69-138	2	20	
m&p-Xylene	ug/kg	<50.0	2990	2990	2760	2920	92	98	61-130	6	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1500	1500	1380	1440	93	96	52-134	4	20	
Methylene Chloride	ug/kg	<25.0	1500	1500	1370	1370	91	92	61-131	0	20	
o-Xylene	ug/kg	<25.0	1500	1500	1330	1410	89	95	63-130	6	20	
Styrene	ug/kg	<25.0	1500	1500	1410	1420	94	95	70-130	1	20	
Tetrachloroethene	ug/kg	<25.0	1500	1500	1410	1470	94	98	65-130	4	20	
Toluene	ug/kg	<25.0	1500	1500	1440	1440	96	96	65-130	0	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1500	1500	1330	1390	89	93	55-130	5	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1500	1500	1530	1520	102	102	54-130	0	20	
Trichloroethene	ug/kg	<25.0	1500	1500	1420	1500	95	100	70-130	5	20	
Trichlorofluoromethane	ug/kg	<25.0	1500	1500	798	901	53	60	42-150	12	24	
Vinyl chloride	ug/kg	<25.0	1500	1500	987	1030	66	69	35-134	4	20	
4-Bromofluorobenzene (S)	%						90	94	53-134			
Dibromofluoromethane (S)	%						94	98	49-157			
Toluene-d8 (S)	%						101	106	61-148			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVE
Pace Project No.: 40125392

QC Batch: PMST/12189 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40125392001, 40125392002, 40125392003, 40125392004, 40125392005, 40125392006

SAMPLE DUPLICATE: 1266971

Parameter	Units	40125396001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.1	6.1	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: UNIVERSITY AVE
Pace Project No.: 40125392

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UNIVERSITY AVE
Pace Project No.: 40125392

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40125392001	**RS-1**	EPA 5035/5030B	MSV/31486	EPA 8260	MSV/31489
40125392002	**RS-2**	EPA 5035/5030B	MSV/31486	EPA 8260	MSV/31489
40125392003	**RS-3**	EPA 5035/5030B	MSV/31486	EPA 8260	MSV/31489
40125392004	**RS-4**	EPA 5035/5030B	MSV/31486	EPA 8260	MSV/31489
40125392005	**RS-5**	EPA 5035/5030B	MSV/31486	EPA 8260	MSV/31489
40125392006	**RS-6**	EPA 5035/5030B	MSV/31486	EPA 8260	MSV/31489
40125392007	**MEOH BLANK**	EPA 5035/5030B	MSV/31486	EPA 8260	MSV/31489
40125392001	**RS-1**	ASTM D2974-87	PMST/12189		
40125392002	**RS-2**	ASTM D2974-87	PMST/12189		
40125392003	**RS-3**	ASTM D2974-87	PMST/12189		
40125392004	**RS-4**	ASTM D2974-87	PMST/12189		
40125392005	**RS-5**	ASTM D2974-87	PMST/12189		
40125392006	**RS-6**	ASTM D2974-87	PMST/12189		

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

401253 92

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BH

CHAIN OF CUSTODY

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

(Please Print Clearly)

Company Name:	Ayres Associates
Branch/Location:	Madison
Project Contact:	Tom Gosiech
Phone:	608 443 1200
Project Number:	
Project Name:	University Ave
Project State:	Wisconsin
Sampled By (Print):	Thomas P Gosiech
Sampled By (Sign):	Thomas P Gosiech
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	Ayres Associates
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	F	VOC			
001	RS-1	11/25	10:10	S			X	1-40mlVF	1-4ozpA	
002	RS-2	11/25	10:15	S			X			
003	RS-3	11/25	10:25	S			X			
004	RS-4	11/25	10:35	S			X			
005	RS-5	11/25	10:45	S			X			
006	RS-6	11/25	11:00	S			X			
007	MeOH Blank						X			

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

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

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

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Thomas P Gosiech	11/30	[illegible]	11:00AM 11-30
Walter O	12-1-15 0840	Susan Wyllie Lee	12-1-15 0840

PACE Project No.: 40125392
Receipt Temp = ROT °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: Ayres

Project #: **WO# : 40125392**

40125392

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Walker

Tracking #: 926023

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

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

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 12-1-15
Initials: SW

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. No collect date + time on all 4 orp. 12-1-15 SW
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: (VOA) coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☐Yes ☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution: Original and copy of COC in shipment. 12-1-15 SW

Project Manager Review: AMH for DM **Date:** 12/1/15

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 21, 2015

Tom Gaieck
Ayres & Associates, Inc
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Dear Tom Gaieck:
Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40125733001	**RS-7**	Solid	12/04/15 10:00	12/08/15 08:50
40125733002	**RS-8**	Solid	12/04/15 10:15	12/08/15 08:50
40125733003	**RS-9**	Solid	12/04/15 10:25	12/08/15 08:50
40125733004	**RS-10**	Solid	12/04/15 10:40	12/08/15 08:50
40125733005	**MEOH BLANK**	Solid	12/04/15 00:00	12/08/15 08:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40125733001	**RS-7**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40125733002	**RS-8**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40125733003	**RS-9**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40125733004	**RS-10**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40125733005	**MEOH BLANK**	EPA 8260	SMT	64	PASI-G

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SUMMARY OF DETECTION

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40125733001	**RS-7**					
ASTM D2974-87	Percent Moisture	23.3	%	0.10	12/18/15 16:50	
40125733002	**RS-8**					
EPA 8260	Tetrachloroethene	188	ug/kg	65.6	12/11/15 16:24	
ASTM D2974-87	Percent Moisture	8.5	%	0.10	12/18/15 16:50	
40125733003	**RS-9**					
EPA 8260	Tetrachloroethene	158	ug/kg	66.4	12/11/15 16:48	
ASTM D2974-87	Percent Moisture	9.7	%	0.10	12/18/15 16:50	
40125733004	**RS-10**					
EPA 8260	Tetrachloroethene	75.8	ug/kg	65.6	12/11/15 17:11	
ASTM D2974-87	Percent Moisture	8.5	%	0.10	12/18/15 16:50	

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ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Sample: RS-7 **Lab ID: 40125733001** Collected: 12/04/15 10:00 Received: 12/08/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/11/15 07:00	12/11/15 16:01	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/11/15 07:00	12/11/15 16:01	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/11/15 07:00	12/11/15 16:01	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/11/15 07:00	12/11/15 16:01	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/11/15 07:00	12/11/15 16:01	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Sample: RS-7 **Lab ID: 40125733001** Collected: 12/04/15 10:00 Received: 12/08/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/11/15 07:00	12/11/15 16:01	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/11/15 07:00	12/11/15 16:01	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:01	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	81	%	49-157		1	12/11/15 07:00	12/11/15 16:01	1868-53-7	
Toluene-d8 (S)	88	%	61-148		1	12/11/15 07:00	12/11/15 16:01	2037-26-5	
4-Bromofluorobenzene (S)	74	%	53-134		1	12/11/15 07:00	12/11/15 16:01	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.3**	%	0.10	0.10	1		12/18/15 16:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Sample: RS-8 **Lab ID: 40125733002** Collected: 12/04/15 10:15 Received: 12/08/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/11/15 07:00	12/11/15 16:24	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/11/15 07:00	12/11/15 16:24	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/11/15 07:00	12/11/15 16:24	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/11/15 07:00	12/11/15 16:24	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/11/15 07:00	12/11/15 16:24	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Sample: RS-8 **Lab ID: 40125733002** Collected: 12/04/15 10:15 Received: 12/08/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	79-34-5	W
Tetrachloroethene	**188**	ug/kg	65.6	27.3	1	12/11/15 07:00	12/11/15 16:24	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/11/15 07:00	12/11/15 16:24	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/11/15 07:00	12/11/15 16:24	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:24	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	49-157		1	12/11/15 07:00	12/11/15 16:24	1868-53-7	
Toluene-d8 (S)	102	%	61-148		1	12/11/15 07:00	12/11/15 16:24	2037-26-5	
4-Bromofluorobenzene (S)	85	%	53-134		1	12/11/15 07:00	12/11/15 16:24	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.5**	%	0.10	0.10	1		12/18/15 16:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Sample: RS-9 **Lab ID: 40125733003** Collected: 12/04/15 10:25 Received: 12/08/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/11/15 07:00	12/11/15 16:48	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/11/15 07:00	12/11/15 16:48	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/11/15 07:00	12/11/15 16:48	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/11/15 07:00	12/11/15 16:48	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/11/15 07:00	12/11/15 16:48	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Sample: RS-9 **Lab ID: 40125733003** Collected: 12/04/15 10:25 Received: 12/08/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	79-34-5	W
Tetrachloroethene	**158**	ug/kg	66.4	27.7	1	12/11/15 07:00	12/11/15 16:48	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/11/15 07:00	12/11/15 16:48	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/11/15 07:00	12/11/15 16:48	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 16:48	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	49-157		1	12/11/15 07:00	12/11/15 16:48	1868-53-7	
Toluene-d8 (S)	104	%	61-148		1	12/11/15 07:00	12/11/15 16:48	2037-26-5	
4-Bromofluorobenzene (S)	88	%	53-134		1	12/11/15 07:00	12/11/15 16:48	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.7**	%	0.10	0.10	1		12/18/15 16:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Sample: RS-10 **Lab ID: 40125733004** Collected: 12/04/15 10:40 Received: 12/08/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/11/15 07:00	12/11/15 17:11	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/11/15 07:00	12/11/15 17:11	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/11/15 07:00	12/11/15 17:11	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/11/15 07:00	12/11/15 17:11	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/11/15 07:00	12/11/15 17:11	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Sample: RS-10 **Lab ID: 40125733004** Collected: 12/04/15 10:40 Received: 12/08/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	79-34-5	W
Tetrachloroethene	**75.8**	ug/kg	65.6	27.3	1	12/11/15 07:00	12/11/15 17:11	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/11/15 07:00	12/11/15 17:11	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/11/15 07:00	12/11/15 17:11	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 17:11	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	91	%	49-157		1	12/11/15 07:00	12/11/15 17:11	1868-53-7	
Toluene-d8 (S)	100	%	61-148		1	12/11/15 07:00	12/11/15 17:11	2037-26-5	
4-Bromofluorobenzene (S)	83	%	53-134		1	12/11/15 07:00	12/11/15 17:11	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.5**	%	0.10	0.10	1		12/18/15 16:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Sample: MEOH BLANK **Lab ID: 40125733005** Collected: 12/04/15 00:00 Received: 12/08/15 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/11/15 07:00	12/11/15 20:31	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/11/15 07:00	12/11/15 20:31	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/11/15 07:00	12/11/15 20:31	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/11/15 07:00	12/11/15 20:31	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/11/15 07:00	12/11/15 20:31	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Sample: MEOH BLANK **Lab ID: 40125733005** Collected: 12/04/15 00:00 Received: 12/08/15 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/11/15 07:00	12/11/15 20:31	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/11/15 07:00	12/11/15 20:31	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/11/15 07:00	12/11/15 20:31	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	82	%	49-157		1	12/11/15 07:00	12/11/15 20:31	1868-53-7	
Toluene-d8 (S)	85	%	61-148		1	12/11/15 07:00	12/11/15 20:31	2037-26-5	
4-Bromofluorobenzene (S)	80	%	53-134		1	12/11/15 07:00	12/11/15 20:31	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

QC Batch: MSV/31580 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40125733001, 40125733002, 40125733003, 40125733004, 40125733005

METHOD BLANK: 1272335 Matrix: Solid
Associated Lab Samples: 40125733001, 40125733002, 40125733003, 40125733004, 40125733005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	12/11/15 08:37	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	12/11/15 08:37	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	12/11/15 08:37	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	12/11/15 08:37	
1,1-Dichloroethane	ug/kg	<17.6	50.0	12/11/15 08:37	
1,1-Dichloroethene	ug/kg	<17.6	50.0	12/11/15 08:37	
1,1-Dichloropropene	ug/kg	<14.0	50.0	12/11/15 08:37	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	12/11/15 08:37	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	12/11/15 08:37	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	12/11/15 08:37	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	12/11/15 08:37	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	12/11/15 08:37	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	12/11/15 08:37	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	12/11/15 08:37	
1,2-Dichloroethane	ug/kg	<15.0	50.0	12/11/15 08:37	
1,2-Dichloropropane	ug/kg	<16.8	50.0	12/11/15 08:37	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	12/11/15 08:37	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	12/11/15 08:37	
1,3-Dichloropropane	ug/kg	<12.0	50.0	12/11/15 08:37	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	12/11/15 08:37	
2,2-Dichloropropane	ug/kg	<12.6	50.0	12/11/15 08:37	
2-Chlorotoluene	ug/kg	<15.8	50.0	12/11/15 08:37	
4-Chlorotoluene	ug/kg	<13.0	50.0	12/11/15 08:37	
Benzene	ug/kg	<9.2	20.0	12/11/15 08:37	
Bromobenzene	ug/kg	<20.6	50.0	12/11/15 08:37	
Bromochloromethane	ug/kg	<21.4	50.0	12/11/15 08:37	
Bromodichloromethane	ug/kg	<9.8	50.0	12/11/15 08:37	
Bromoform	ug/kg	<19.8	50.0	12/11/15 08:37	
Bromomethane	ug/kg	<69.9	250	12/11/15 08:37	
Carbon tetrachloride	ug/kg	<12.1	50.0	12/11/15 08:37	
Chlorobenzene	ug/kg	<14.8	50.0	12/11/15 08:37	
Chloroethane	ug/kg	<67.0	250	12/11/15 08:37	
Chloroform	ug/kg	<46.4	250	12/11/15 08:37	
Chloromethane	ug/kg	<20.4	50.0	12/11/15 08:37	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	12/11/15 08:37	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	12/11/15 08:37	
Dibromochloromethane	ug/kg	<17.9	50.0	12/11/15 08:37	
Dibromomethane	ug/kg	<19.3	50.0	12/11/15 08:37	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	12/11/15 08:37	
Diisopropyl ether	ug/kg	<17.7	50.0	12/11/15 08:37	
Ethylbenzene	ug/kg	<12.4	50.0	12/11/15 08:37	

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

METHOD BLANK: 1272335 Matrix: Solid
Associated Lab Samples: 40125733001, 40125733002, 40125733003, 40125733004, 40125733005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	26.3J	50.0	12/11/15 08:37	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	12/11/15 08:37	
m&p-Xylene	ug/kg	<34.4	100	12/11/15 08:37	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	12/11/15 08:37	
Methylene Chloride	ug/kg	<16.2	50.0	12/11/15 08:37	
n-Butylbenzene	ug/kg	<10.5	50.0	12/11/15 08:37	
n-Propylbenzene	ug/kg	<11.6	50.0	12/11/15 08:37	
Naphthalene	ug/kg	<40.0	250	12/11/15 08:37	
o-Xylene	ug/kg	<14.0	50.0	12/11/15 08:37	
p-Isopropyltoluene	ug/kg	<12.0	50.0	12/11/15 08:37	
sec-Butylbenzene	ug/kg	<11.9	50.0	12/11/15 08:37	
Styrene	ug/kg	<9.0	50.0	12/11/15 08:37	
tert-Butylbenzene	ug/kg	<9.5	50.0	12/11/15 08:37	
Tetrachloroethene	ug/kg	<12.9	50.0	12/11/15 08:37	
Toluene	ug/kg	<11.2	50.0	12/11/15 08:37	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	12/11/15 08:37	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	12/11/15 08:37	
Trichloroethene	ug/kg	<23.6	50.0	12/11/15 08:37	
Trichlorofluoromethane	ug/kg	<24.7	50.0	12/11/15 08:37	
Vinyl chloride	ug/kg	<21.1	50.0	12/11/15 08:37	
4-Bromofluorobenzene (S)	%	88	53-134	12/11/15 08:37	
Dibromofluoromethane (S)	%	85	49-157	12/11/15 08:37	
Toluene-d8 (S)	%	97	61-148	12/11/15 08:37	

LABORATORY CONTROL SAMPLE: 1272336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2440	97	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2430	97	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2650	106	70-130	
1,1-Dichloroethane	ug/kg	2500	2370	95	70-130	
1,1-Dichloroethene	ug/kg	2500	2220	89	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	2210	88	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2340	94	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2580	103	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2540	102	70-130	
1,2-Dichloroethane	ug/kg	2500	2380	95	70-134	
1,2-Dichloropropane	ug/kg	2500	2790	112	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2510	100	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2450	98	70-130	
Benzene	ug/kg	2500	2370	95	70-130	
Bromodichloromethane	ug/kg	2500	2810	113	70-130	
Bromoform	ug/kg	2500	3080	123	48-130	
Bromomethane	ug/kg	2500	2170	87	70-169	

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

LABORATORY CONTROL SAMPLE: 1272336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2380	95	67-130	
Chlorobenzene	ug/kg	2500	2600	104	70-130	
Chloroethane	ug/kg	2500	1840	74	70-191	
Chloroform	ug/kg	2500	2300	92	70-130	
Chloromethane	ug/kg	2500	1870	75	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2270	91	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2790	111	70-130	
Dibromochloromethane	ug/kg	2500	2560	102	65-130	
Dichlorodifluoromethane	ug/kg	2500	1400	56	12-150	
Ethylbenzene	ug/kg	2500	2520	101	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2410	96	70-130	
m&p-Xylene	ug/kg	5000	5270	105	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2420	97	70-130	
Methylene Chloride	ug/kg	2500	2350	94	70-131	
o-Xylene	ug/kg	2500	2510	100	70-130	
Styrene	ug/kg	2500	2430	97	70-130	
Tetrachloroethene	ug/kg	2500	2760	110	70-130	
Toluene	ug/kg	2500	2560	103	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2460	98	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2510	100	65-130	
Trichloroethene	ug/kg	2500	2560	102	70-130	
Trichlorofluoromethane	ug/kg	2500	1890	76	50-150	
Vinyl chloride	ug/kg	2500	2180	87	67-134	
4-Bromofluorobenzene (S)	%			90	53-134	
Dibromofluoromethane (S)	%			89	49-157	
Toluene-d8 (S)	%			99	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1272337 1272338

Parameter	Units	40125840001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<0.025 mg/kg	1250	1250	974	1040	78	83	63-130	6	20	
1,1,2,2-Tetrachloroethane	ug/kg	<0.025 mg/kg	1250	1250	1170	1190	94	95	57-136	1	20	
1,1,2-Trichloroethane	ug/kg	<0.025 mg/kg	1250	1250	1270	1310	101	105	70-130	3	20	
1,1-Dichloroethane	ug/kg	<0.025 mg/kg	1250	1250	1100	1070	88	86	62-131	3	23	
1,1-Dichloroethene	ug/kg	<0.025 mg/kg	1250	1250	856	966	69	77	42-137	12	20	
1,2,4-Trichlorobenzene	ug/kg	<0.048 mg/kg	1250	1250	1200	1110	94	87	59-137	8	21	
1,2-Dibromo-3-chloropropane	ug/kg	<0.091 mg/kg	1250	1250	1040	1010	83	81	33-150	3	25	
1,2-Dibromoethane (EDB)	ug/kg	<0.025 mg/kg	1250	1250	1240	1260	99	101	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1272337 1272338

Parameter	Units	40125840001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichlorobenzene	ug/kg	<0.025 mg/kg	1250	1250	1220	1170	97	94	70-130	4	20	
1,2-Dichloroethane	ug/kg	<0.025 mg/kg	1250	1250	1070	1140	86	92	68-134	7	20	
1,2-Dichloropropane	ug/kg	<0.025 mg/kg	1250	1250	1340	1340	108	107	70-130	0	20	
1,3-Dichlorobenzene	ug/kg	<0.025 mg/kg	1250	1250	1160	1180	93	94	70-130	2	20	
1,4-Dichlorobenzene	ug/kg	<0.025 mg/kg	1250	1250	1190	1160	95	93	69-130	2	20	
Benzene	ug/kg	<0.025 mg/kg	1250	1250	1060	1080	85	86	56-131	1	20	
Bromodichloromethane	ug/kg	<0.025 mg/kg	1250	1250	1300	1300	104	104	64-130	0	20	
Bromoform	ug/kg	<0.025 mg/kg	1250	1250	1400	1390	112	112	48-130	0	20	
Bromomethane	ug/kg	<0.070 mg/kg	1250	1250	888	892	71	71	18-169	0	23	
Carbon tetrachloride	ug/kg	<0.025 mg/kg	1250	1250	933	994	75	80	59-130	6	20	
Chlorobenzene	ug/kg	<0.025 mg/kg	1250	1250	1240	1220	99	97	70-130	2	20	
Chloroethane	ug/kg	<0.067 mg/kg	1250	1250	698	700	56	56	10-191	0	20	
Chloroform	ug/kg	<0.046 mg/kg	1250	1250	1090	1070	87	86	65-130	1	20	
Chloromethane	ug/kg	<0.025 mg/kg	1250	1250	585	591	47	47	36-132	1	20	
cis-1,2-Dichloroethene	ug/kg	<0.025 mg/kg	1250	1250	1070	1050	85	84	59-136	1	24	
cis-1,3-Dichloropropene	ug/kg	<0.025 mg/kg	1250	1250	1310	1320	105	105	60-130	0	20	
Dibromochloromethane	ug/kg	<0.025 mg/kg	1250	1250	1240	1280	99	103	59-130	4	20	
Dichlorodifluoromethane	ug/kg	<0.025 mg/kg	1250	1250	256	292	21	23	10-150	13	27	
Ethylbenzene	ug/kg	<0.025 mg/kg	1250	1250	1140	1150	91	92	64-130	1	20	
Isopropylbenzene (Cumene)	ug/kg	<0.025 mg/kg	1250	1250	1080	1060	86	85	69-138	1	20	
m&p-Xylene	ug/kg	<0.050 mg/kg	2500	2500	2370	2360	95	94	61-130	1	20	
Methyl-tert-butyl ether	ug/kg	<0.025 mg/kg	1250	1250	1060	1120	85	89	52-134	5	20	
Methylene Chloride	ug/kg	<0.025 mg/kg	1250	1250	1110	1160	89	93	61-131	5	20	
o-Xylene	ug/kg	<0.025 mg/kg	1250	1250	1190	1130	95	90	63-130	5	20	
Styrene	ug/kg	<0.025 mg/kg	1250	1250	1190	1140	95	91	70-130	4	20	
Tetrachloroethene	ug/kg	<0.025 mg/kg	1250	1250	1140	1230	91	98	65-130	8	20	
Toluene	ug/kg	<0.025 mg/kg	1250	1250	1220	1230	97	98	65-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1272337 1272338

Parameter	Units	40125840001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,2-Dichloroethene	ug/kg	<0.025 mg/kg	1250	1250	1070	1060	86	85	55-130	1	20	
trans-1,3-Dichloropropene	ug/kg	<0.025 mg/kg	1250	1250	1230	1260	99	101	54-130	2	20	
Trichloroethene	ug/kg	<0.025 mg/kg	1250	1250	1190	1260	95	101	70-130	6	20	
Trichlorofluoromethane	ug/kg	<0.025 mg/kg	1250	1250	726	783	58	63	42-150	8	24	
Vinyl chloride	ug/kg	<0.025 mg/kg	1250	1250	652	685	52	55	35-134	5	20	
4-Bromofluorobenzene (S)	%						84	83	53-134			
Dibromofluoromethane (S)	%						87	83	49-157			
Toluene-d8 (S)	%						96	93	61-148			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

QC Batch: PMST/12247 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40125733001, 40125733002, 40125733003, 40125733004

SAMPLE DUPLICATE: 1276692

Parameter	Units	40125733002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.5	8.0	6	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UNIVERSITY AVENUE
Pace Project No.: 40125733

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40125733001	**RS-7**	EPA 5035/5030B	MSV/31580	EPA 8260	MSV/31581
40125733002	**RS-8**	EPA 5035/5030B	MSV/31580	EPA 8260	MSV/31581
40125733003	**RS-9**	EPA 5035/5030B	MSV/31580	EPA 8260	MSV/31581
40125733004	**RS-10**	EPA 5035/5030B	MSV/31580	EPA 8260	MSV/31581
40125733005	**MEOH BLANK**	EPA 5035/5030B	MSV/31580	EPA 8260	MSV/31581
40125733001	**RS-7**	ASTM D2974-87	PMST/12247		
40125733002	**RS-8**	ASTM D2974-87	PMST/12247		
40125733003	**RS-9**	ASTM D2974-87	PMST/12247		
40125733004	**RS-10**	ASTM D2974-87	PMST/12247		

(Please Print Clearly)

Company Name:	Ayres Associates
Branch/Location:	Madison
Project Contact:	Tom Gaicek
Phone:	608-443-1200
Project Number:	
Project Name:	University Avenue
Project State:	Wisconsin
Sampled By (Print):	Thomas P Gaicek
Sampled By (Sign):	Thomas P Gaicek
PO #:	Regulatory Program:

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

Slow

Page 1 of

401257333

CHAIN OF CUSTODY

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

Quote #:	
Mail To Contact:	Thomas Gaicek
Mail To Company:	Ayres Associates
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	RS-7	12/4	10:00	S	N	F	VOC		1-40mlV^F 1-40ozP^A	
002	RS-8	12/4	10:15	S						
003	RS-9	12/4	10:25	S						
004	RS-10	12/4	10:40	S						
005	MeoH Blank									

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

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

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

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Thomas P Gaicek	12/7/15		
Walter	12/8/15 0840	[illegible] Power Pace	12/8/15 0850

PACE Project No.
401257333

Receipt Temp = ROI °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

Sample Condition Upon Receipt

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

Project #: WO#: 40125733

Client Name: Ayres Associates

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Waltco

Tracking #: 932292-1

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

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 12/8/15
Initials: TL

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1. original + copy of COC 12/8/15 TL
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. no collect date or time on poly's 12/8/15 TL
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☒No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	14.
Trip Blank Present:	☒Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: AMH for DM **Date:** 12/08/15

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 09, 2015

Tom Gaieck
Ayres & Associates, Inc
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

Dear Tom Gaieck:
Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40125732001	**RS-11**	Solid	12/04/15 13:12	12/08/15 08:40

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40125732001	**RS-11**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40125732001	**RS-11**					
ASTM D2974-87	Percent Moisture	6.6	%	0.10	12/08/15 17:54	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

Sample: RS-11 **Lab ID: 40125732001** Collected: 12/04/15 13:12 Received: 12/08/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/09/15 07:00	12/09/15 10:51	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/09/15 07:00	12/09/15 10:51	75-00-3	L2,W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/09/15 07:00	12/09/15 10:51	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/09/15 07:00	12/09/15 10:51	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/09/15 07:00	12/09/15 10:51	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

Sample: RS-11 **Lab ID: 40125732001** Collected: 12/04/15 13:12 Received: 12/08/15 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/09/15 07:00	12/09/15 10:51	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/09/15 07:00	12/09/15 10:51	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/09/15 07:00	12/09/15 10:51	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	49-157		1	12/09/15 07:00	12/09/15 10:51	1868-53-7	
Toluene-d8 (S)	103	%	61-148		1	12/09/15 07:00	12/09/15 10:51	2037-26-5	
4-Bromofluorobenzene (S)	88	%	53-134		1	12/09/15 07:00	12/09/15 10:51	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.6**	%	0.10	0.10	1		12/08/15 17:54		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

QC Batch: MSV/31554
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40125732001

METHOD BLANK: 1270745
Matrix: Solid
Associated Lab Samples: 40125732001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	12/09/15 08:32	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	12/09/15 08:32	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	12/09/15 08:32	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	12/09/15 08:32	
1,1-Dichloroethane	ug/kg	<17.6	50.0	12/09/15 08:32	
1,1-Dichloroethene	ug/kg	<17.6	50.0	12/09/15 08:32	
1,1-Dichloropropene	ug/kg	<14.0	50.0	12/09/15 08:32	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	12/09/15 08:32	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	12/09/15 08:32	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	12/09/15 08:32	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	12/09/15 08:32	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	12/09/15 08:32	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	12/09/15 08:32	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	12/09/15 08:32	
1,2-Dichloroethane	ug/kg	<15.0	50.0	12/09/15 08:32	
1,2-Dichloropropane	ug/kg	<16.8	50.0	12/09/15 08:32	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	12/09/15 08:32	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	12/09/15 08:32	
1,3-Dichloropropane	ug/kg	<12.0	50.0	12/09/15 08:32	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	12/09/15 08:32	
2,2-Dichloropropane	ug/kg	<12.6	50.0	12/09/15 08:32	
2-Chlorotoluene	ug/kg	<15.8	50.0	12/09/15 08:32	
4-Chlorotoluene	ug/kg	<13.0	50.0	12/09/15 08:32	
Benzene	ug/kg	<9.2	20.0	12/09/15 08:32	
Bromobenzene	ug/kg	<20.6	50.0	12/09/15 08:32	
Bromochloromethane	ug/kg	<21.4	50.0	12/09/15 08:32	
Bromodichloromethane	ug/kg	<9.8	50.0	12/09/15 08:32	
Bromoform	ug/kg	<19.8	50.0	12/09/15 08:32	
Bromomethane	ug/kg	<69.9	250	12/09/15 08:32	
Carbon tetrachloride	ug/kg	<12.1	50.0	12/09/15 08:32	
Chlorobenzene	ug/kg	<14.8	50.0	12/09/15 08:32	
Chloroethane	ug/kg	<67.0	250	12/09/15 08:32	
Chloroform	ug/kg	<46.4	250	12/09/15 08:32	
Chloromethane	ug/kg	<20.4	50.0	12/09/15 08:32	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	12/09/15 08:32	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	12/09/15 08:32	
Dibromochloromethane	ug/kg	<17.9	50.0	12/09/15 08:32	
Dibromomethane	ug/kg	<19.3	50.0	12/09/15 08:32	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	12/09/15 08:32	
Diisopropyl ether	ug/kg	<17.7	50.0	12/09/15 08:32	
Ethylbenzene	ug/kg	<12.4	50.0	12/09/15 08:32	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

METHOD BLANK: 1270745 Matrix: Solid
Associated Lab Samples: 40125732001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	12/09/15 08:32	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	12/09/15 08:32	
m&p-Xylene	ug/kg	<34.4	100	12/09/15 08:32	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	12/09/15 08:32	
Methylene Chloride	ug/kg	<16.2	50.0	12/09/15 08:32	
n-Butylbenzene	ug/kg	<10.5	50.0	12/09/15 08:32	
n-Propylbenzene	ug/kg	<11.6	50.0	12/09/15 08:32	
Naphthalene	ug/kg	<40.0	250	12/09/15 08:32	
o-Xylene	ug/kg	<14.0	50.0	12/09/15 08:32	
p-Isopropyltoluene	ug/kg	<12.0	50.0	12/09/15 08:32	
sec-Butylbenzene	ug/kg	<11.9	50.0	12/09/15 08:32	
Styrene	ug/kg	<9.0	50.0	12/09/15 08:32	
tert-Butylbenzene	ug/kg	<9.5	50.0	12/09/15 08:32	
Tetrachloroethene	ug/kg	<12.9	50.0	12/09/15 08:32	
Toluene	ug/kg	<11.2	50.0	12/09/15 08:32	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	12/09/15 08:32	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	12/09/15 08:32	
Trichloroethene	ug/kg	<23.6	50.0	12/09/15 08:32	
Trichlorofluoromethane	ug/kg	<24.7	50.0	12/09/15 08:32	
Vinyl chloride	ug/kg	<21.1	50.0	12/09/15 08:32	
4-Bromofluorobenzene (S)	%	82	53-134	12/09/15 08:32	
Dibromofluoromethane (S)	%	88	49-157	12/09/15 08:32	
Toluene-d8 (S)	%	94	61-148	12/09/15 08:32	

LABORATORY CONTROL SAMPLE: 1270746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2190	88	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2500	100	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2810	112	70-130	
1,1-Dichloroethane	ug/kg	2500	2170	87	70-130	
1,1-Dichloroethene	ug/kg	2500	2170	87	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	2020	81	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2280	91	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2600	104	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2450	98	70-130	
1,2-Dichloroethane	ug/kg	2500	2190	87	70-134	
1,2-Dichloropropane	ug/kg	2500	2840	114	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2450	98	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2450	98	70-130	
Benzene	ug/kg	2500	2180	87	70-130	
Bromodichloromethane	ug/kg	2500	2770	111	70-130	
Bromoform	ug/kg	2500	3020	121	48-130	
Bromomethane	ug/kg	2500	1760	70	70-169	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

LABORATORY CONTROL SAMPLE: 1270746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2180	87	67-130	
Chlorobenzene	ug/kg	2500	2530	101	70-130	
Chloroethane	ug/kg	2500	1560	63	70-191	L0
Chloroform	ug/kg	2500	2150	86	70-130	
Chloromethane	ug/kg	2500	1460	58	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2120	85	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2790	112	70-130	
Dibromochloromethane	ug/kg	2500	2480	99	65-130	
Dichlorodifluoromethane	ug/kg	2500	901	36	12-150	
Ethylbenzene	ug/kg	2500	2470	99	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2380	95	70-130	
m&p-Xylene	ug/kg	5000	5060	101	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2230	89	70-130	
Methylene Chloride	ug/kg	2500	2170	87	70-131	
o-Xylene	ug/kg	2500	2510	100	70-130	
Styrene	ug/kg	2500	2440	98	70-130	
Tetrachloroethene	ug/kg	2500	2730	109	70-130	
Toluene	ug/kg	2500	2560	102	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2280	91	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2500	100	65-130	
Trichloroethene	ug/kg	2500	2570	103	70-130	
Trichlorofluoromethane	ug/kg	2500	1700	68	50-150	
Vinyl chloride	ug/kg	2500	1770	71	67-134	
4-Bromofluorobenzene (S)	%			89	53-134	
Dibromofluoromethane (S)	%			88	49-157	
Toluene-d8 (S)	%			100	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1270747 1270748

Parameter	Units	40125732001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1340	1340	1030	1150	77	86	63-130	11	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1340	1340	1220	1310	91	98	57-136	7	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1340	1340	1440	1450	108	108	70-130	1	20	
1,1-Dichloroethane	ug/kg	<25.0	1340	1340	1140	1200	85	89	62-131	5	23	
1,1-Dichloroethene	ug/kg	<25.0	1340	1340	892	1010	67	75	42-137	12	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1340	1340	1320	1290	99	96	59-137	3	21	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1340	1340	1200	1330	90	99	33-150	10	25	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1340	1340	1370	1370	102	103	70-130	0	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1340	1340	1290	1300	96	97	70-130	1	20	
1,2-Dichloroethane	ug/kg	<25.0	1340	1340	1170	1250	87	93	68-134	7	20	
1,2-Dichloropropane	ug/kg	<25.0	1340	1340	1390	1440	104	108	70-130	4	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1340	1340	1250	1280	93	96	70-130	2	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1340	1340	1230	1290	92	96	69-130	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1270747 1270748

Parameter	Units	40125732001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1340	1340	1130	1230	84	92	56-131	8	20	
Bromodichloromethane	ug/kg	<25.0	1340	1340	1380	1470	103	109	64-130	6	20	
Bromoform	ug/kg	<25.0	1340	1340	1510	1610	113	120	48-130	6	20	
Bromomethane	ug/kg	<69.9	1340	1340	948	975	71	73	18-169	3	23	
Carbon tetrachloride	ug/kg	<25.0	1340	1340	917	1100	69	82	59-130	18	20	
Chlorobenzene	ug/kg	<25.0	1340	1340	1290	1370	97	102	70-130	6	20	
Chloroethane	ug/kg	<67.0	1340	1340	725	816	54	61	10-191	12	20	
Chloroform	ug/kg	<46.4	1340	1340	1200	1240	90	92	65-130	3	20	
Chloromethane	ug/kg	<25.0	1340	1340	692	748	52	56	36-132	8	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1340	1340	1160	1200	87	90	59-136	4	24	
cis-1,3-Dichloropropene	ug/kg	<25.0	1340	1340	1330	1430	99	107	60-130	8	20	
Dibromochloromethane	ug/kg	<25.0	1340	1340	1350	1430	101	107	59-130	6	20	
Dichlorodifluoromethane	ug/kg	<25.0	1340	1340	337	380	25	28	10-150	12	27	
Ethylbenzene	ug/kg	<25.0	1340	1340	1210	1250	90	93	64-130	3	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1340	1340	1120	1210	84	90	69-138	8	20	
m&p-Xylene	ug/kg	<50.0	2680	2680	2550	2620	95	98	61-130	3	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1340	1340	1160	1280	87	96	52-134	10	20	
Methylene Chloride	ug/kg	<25.0	1340	1340	1200	1280	90	95	61-131	6	20	
o-Xylene	ug/kg	<25.0	1340	1340	1250	1260	93	94	63-130	1	20	
Styrene	ug/kg	<25.0	1340	1340	1260	1300	94	97	70-130	3	20	
Tetrachloroethene	ug/kg	<25.0	1340	1340	1230	1320	92	98	65-130	7	20	
Toluene	ug/kg	<25.0	1340	1340	1280	1380	96	103	65-130	7	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1340	1340	1080	1270	80	95	55-130	16	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1340	1340	1340	1390	100	104	54-130	4	20	
Trichloroethene	ug/kg	<25.0	1340	1340	1200	1290	90	96	70-130	7	20	
Trichlorofluoromethane	ug/kg	<25.0	1340	1340	656	829	49	62	42-150	23	24	
Vinyl chloride	ug/kg	<25.0	1340	1340	754	862	56	64	35-134	13	20	
4-Bromofluorobenzene (S)	%						91	92	53-134			
Dibromofluoromethane (S)	%						90	95	49-157			
Toluene-d8 (S)	%						101	102	61-148			

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

QC Batch: PMST/12213
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40125732001

SAMPLE DUPLICATE: 1270550

Parameter	Units	40125736001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.2	8.1	1	10	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UNIVERSITY AVENUE
Pace Project No.: 40125732

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40125732001	**RS-11**	EPA 5035/5030B	MSV/31554	EPA 8260	MSV/31555
40125732001	**RS-11**	ASTM D2974-87	PMST/12213		

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

SKW

Page 1 of

40125732

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CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	Ayres Associates
Branch/Location:	Madison
Project Contact:	Thomas Gaiech
Phone:	608 443 1300
Project Number:	
Project Name:	University Avenue
Project State:	Wisconsin
Sampled By (Print):	Thomas T Gaiech
Sampled By (Sign):	Thomas T Gaiech
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Thomas Gaiech
Mail To Company:	Ayres Associates
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	RS-11	12/4	1:12	S	N	F	VOC	Rush	1-40mlV^F 1-4ozP^A	

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

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

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

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Thomas T Gaiech	12/7		
Walco	12/8/15 0840	Yasee Pace	12/8/15 0840

PACE Project No.
40125732

Receipt Temp = ROI °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / ~~Not Present~~
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Project #: **WO# : 40125732**

40125732

Client Name: Ayres Associates

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace ☐ Other: Waltco

Tracking #: 932292-1

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

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 12/8/15
Initials: TL

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1. original + copy of COC 12/8/15 TL
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested: 12/8/15 TL	☒Yes ☐No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: 12/8/15 TL	☒Yes (☐No) ☐N/A	12. no collect date or time on poly 12/8/15 TL
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☒No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	14.
Trip Blank Present:	☐Yes ☒No ☐N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: MMH for DM **Date:** 12/8/15

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 29, 2015

Tom Gaieck
Ayres & Associates, Inc
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Dear Tom Gaieck:
Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40126139001	**CS-1**	Solid	12/11/15 13:00	12/15/15 08:50
40126139002	**CS-2**	Solid	12/11/15 13:10	12/15/15 08:50
40126139003	**CS-3**	Solid	12/11/15 13:15	12/15/15 08:50
40126139004	**CS-4**	Solid	12/11/15 13:25	12/15/15 08:50
40126139005	**CS-5**	Solid	12/11/15 13:30	12/15/15 08:50
40126139006	**CS-6**	Solid	12/11/15 13:45	12/15/15 08:50
40126139007	**RS-12**	Solid	12/11/15 13:50	12/15/15 08:50
40126139008	**RS-15**	Solid	12/11/15 13:55	12/15/15 08:50
40126139009	**RS-16**	Solid	12/11/15 14:00	12/15/15 08:50
40126139010	**MEOH BLANK**	Solid	12/11/15 00:00	12/15/15 08:50

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SAMPLE ANALYTE COUNT

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40126139001	**CS-1**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40126139002	**CS-2**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40126139003	**CS-3**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40126139004	**CS-4**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40126139005	**CS-5**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40126139006	**CS-6**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40126139007	**RS-12**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40126139008	**RS-15**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40126139009	**RS-16**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40126139010	**MEOH BLANK**	EPA 8260	SMT	64	PASI-G

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SUMMARY OF DETECTION

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40126139001	**CS-1**					
ASTM D2974-87	Percent Moisture	18.3	%	0.10	12/23/15 16:26	
40126139002	**CS-2**					
ASTM D2974-87	Percent Moisture	18.1	%	0.10	12/23/15 16:26	
40126139003	**CS-3**					
ASTM D2974-87	Percent Moisture	17.8	%	0.10	12/23/15 16:26	
40126139004	**CS-4**					
EPA 8260	Tetrachloroethene	107	ug/kg	68.3	12/17/15 13:35	
ASTM D2974-87	Percent Moisture	12.1	%	0.10	12/23/15 16:27	
40126139005	**CS-5**					
ASTM D2974-87	Percent Moisture	20.3	%	0.10	12/23/15 16:27	
40126139006	**CS-6**					
ASTM D2974-87	Percent Moisture	8.7	%	0.10	12/23/15 16:27	
40126139007	**RS-12**					
EPA 8260	Tetrachloroethene	85.3	ug/kg	70.9	12/17/15 14:45	
ASTM D2974-87	Percent Moisture	15.4	%	0.10	12/23/15 16:27	
40126139008	**RS-15**					
ASTM D2974-87	Percent Moisture	8.4	%	0.10	12/28/15 11:01	
40126139009	**RS-16**					
EPA 8260	Tetrachloroethene	37.9J	ug/kg	73.7	12/17/15 15:31	
ASTM D2974-87	Percent Moisture	18.6	%	0.10	12/28/15 11:01	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: CS-1 **Lab ID: 40126139001** Collected: 12/11/15 13:00 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/16/15 14:36	12/17/15 12:26	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/16/15 14:36	12/17/15 12:26	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/16/15 14:36	12/17/15 12:26	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/16/15 14:36	12/17/15 12:26	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/16/15 14:36	12/17/15 12:26	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: CS-1 **Lab ID: 40126139001** Collected: 12/11/15 13:00 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/16/15 14:36	12/17/15 12:26	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/16/15 14:36	12/17/15 12:26	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:26	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	49-157		1	12/16/15 14:36	12/17/15 12:26	1868-53-7	
Toluene-d8 (S)	102	%	61-148		1	12/16/15 14:36	12/17/15 12:26	2037-26-5	
4-Bromofluorobenzene (S)	85	%	53-134		1	12/16/15 14:36	12/17/15 12:26	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.3**	%	0.10	0.10	1		12/23/15 16:26		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: CS-2 **Lab ID: 40126139002** Collected: 12/11/15 13:10 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/16/15 14:36	12/17/15 12:49	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/16/15 14:36	12/17/15 12:49	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/16/15 14:36	12/17/15 12:49	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/16/15 14:36	12/17/15 12:49	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/16/15 14:36	12/17/15 12:49	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: CS-2 **Lab ID: 40126139002** Collected: 12/11/15 13:10 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/16/15 14:36	12/17/15 12:49	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/16/15 14:36	12/17/15 12:49	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:49	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	90	%	49-157		1	12/16/15 14:36	12/17/15 12:49	1868-53-7	
Toluene-d8 (S)	99	%	61-148		1	12/16/15 14:36	12/17/15 12:49	2037-26-5	
4-Bromofluorobenzene (S)	85	%	53-134		1	12/16/15 14:36	12/17/15 12:49	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.1**	%	0.10	0.10	1		12/23/15 16:26		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: CS-3 **Lab ID: 40126139003** Collected: 12/11/15 13:15 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/16/15 14:36	12/17/15 13:12	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/16/15 14:36	12/17/15 13:12	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/16/15 14:36	12/17/15 13:12	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/16/15 14:36	12/17/15 13:12	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/16/15 14:36	12/17/15 13:12	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: CS-3 **Lab ID: 40126139003** Collected: 12/11/15 13:15 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/16/15 14:36	12/17/15 13:12	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/16/15 14:36	12/17/15 13:12	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:12	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	89	%	49-157		1	12/16/15 14:36	12/17/15 13:12	1868-53-7	
Toluene-d8 (S)	101	%	61-148		1	12/16/15 14:36	12/17/15 13:12	2037-26-5	
4-Bromofluorobenzene (S)	85	%	53-134		1	12/16/15 14:36	12/17/15 13:12	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.8**	%	0.10	0.10	1		12/23/15 16:26		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: CS-4 **Lab ID: 40126139004** Collected: 12/11/15 13:25 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/16/15 14:36	12/17/15 13:35	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/16/15 14:36	12/17/15 13:35	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/16/15 14:36	12/17/15 13:35	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/16/15 14:36	12/17/15 13:35	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/16/15 14:36	12/17/15 13:35	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: CS-4 **Lab ID: 40126139004** Collected: 12/11/15 13:25 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	79-34-5	W
Tetrachloroethene	**107**	ug/kg	68.3	28.4	1	12/16/15 14:36	12/17/15 13:35	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/16/15 14:36	12/17/15 13:35	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/16/15 14:36	12/17/15 13:35	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:35	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	49-157		1	12/16/15 14:36	12/17/15 13:35	1868-53-7	
Toluene-d8 (S)	105	%	61-148		1	12/16/15 14:36	12/17/15 13:35	2037-26-5	
4-Bromofluorobenzene (S)	87	%	53-134		1	12/16/15 14:36	12/17/15 13:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.1**	%	0.10	0.10	1		12/23/15 16:27		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: CS-5 **Lab ID: 40126139005** Collected: 12/11/15 13:30 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/16/15 14:36	12/17/15 13:59	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/16/15 14:36	12/17/15 13:59	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/16/15 14:36	12/17/15 13:59	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/16/15 14:36	12/17/15 13:59	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/16/15 14:36	12/17/15 13:59	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: CS-5 **Lab ID: 40126139005** Collected: 12/11/15 13:30 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/16/15 14:36	12/17/15 13:59	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/16/15 14:36	12/17/15 13:59	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 13:59	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	88	%	49-157		1	12/16/15 14:36	12/17/15 13:59	1868-53-7	
Toluene-d8 (S)	94	%	61-148		1	12/16/15 14:36	12/17/15 13:59	2037-26-5	
4-Bromofluorobenzene (S)	80	%	53-134		1	12/16/15 14:36	12/17/15 13:59	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.3**	%	0.10	0.10	1		12/23/15 16:27		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: CS-6 **Lab ID: 40126139006** Collected: 12/11/15 13:45 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/16/15 14:36	12/17/15 14:22	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/16/15 14:36	12/17/15 14:22	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/16/15 14:36	12/17/15 14:22	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/16/15 14:36	12/17/15 14:22	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/16/15 14:36	12/17/15 14:22	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: CS-6 **Lab ID: 40126139006** Collected: 12/11/15 13:45 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/16/15 14:36	12/17/15 14:22	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/16/15 14:36	12/17/15 14:22	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:22	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	49-157		1	12/16/15 14:36	12/17/15 14:22	1868-53-7	
Toluene-d8 (S)	104	%	61-148		1	12/16/15 14:36	12/17/15 14:22	2037-26-5	
4-Bromofluorobenzene (S)	86	%	53-134		1	12/16/15 14:36	12/17/15 14:22	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.7**	%	0.10	0.10	1		12/23/15 16:27		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: RS-12 **Lab ID: 40126139007** Collected: 12/11/15 13:50 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/16/15 14:36	12/17/15 14:45	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/16/15 14:36	12/17/15 14:45	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/16/15 14:36	12/17/15 14:45	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/16/15 14:36	12/17/15 14:45	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/16/15 14:36	12/17/15 14:45	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: RS-12 **Lab ID: 40126139007** Collected: 12/11/15 13:50 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	79-34-5	W
Tetrachloroethene	**85.3**	ug/kg	70.9	29.5	1	12/16/15 14:36	12/17/15 14:45	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/16/15 14:36	12/17/15 14:45	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/16/15 14:36	12/17/15 14:45	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 14:45	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	92	%	49-157		1	12/16/15 14:36	12/17/15 14:45	1868-53-7	
Toluene-d8 (S)	103	%	61-148		1	12/16/15 14:36	12/17/15 14:45	2037-26-5	
4-Bromofluorobenzene (S)	86	%	53-134		1	12/16/15 14:36	12/17/15 14:45	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.4**	%	0.10	0.10	1		12/23/15 16:27		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: RS-15 **Lab ID: 40126139008** Collected: 12/11/15 13:55 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/16/15 14:36	12/17/15 15:08	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/16/15 14:36	12/17/15 15:08	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/16/15 14:36	12/17/15 15:08	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/16/15 14:36	12/17/15 15:08	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/16/15 14:36	12/17/15 15:08	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: RS-15 **Lab ID: 40126139008** Collected: 12/11/15 13:55 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/16/15 14:36	12/17/15 15:08	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/16/15 14:36	12/17/15 15:08	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:08	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	98	%	49-157		1	12/16/15 14:36	12/17/15 15:08	1868-53-7	
Toluene-d8 (S)	106	%	61-148		1	12/16/15 14:36	12/17/15 15:08	2037-26-5	
4-Bromofluorobenzene (S)	87	%	53-134		1	12/16/15 14:36	12/17/15 15:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.4**	%	0.10	0.10	1		12/28/15 11:01		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: RS-16 **Lab ID: 40126139009** Collected: 12/11/15 14:00 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/16/15 14:36	12/17/15 15:31	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/16/15 14:36	12/17/15 15:31	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/16/15 14:36	12/17/15 15:31	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/16/15 14:36	12/17/15 15:31	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/16/15 14:36	12/17/15 15:31	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: RS-16 **Lab ID: 40126139009** Collected: 12/11/15 14:00 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	79-34-5	W
Tetrachloroethene	**37.9J**	ug/kg	73.7	30.7	1	12/16/15 14:36	12/17/15 15:31	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/16/15 14:36	12/17/15 15:31	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/16/15 14:36	12/17/15 15:31	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 15:31	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	98	%	49-157		1	12/16/15 14:36	12/17/15 15:31	1868-53-7	
Toluene-d8 (S)	109	%	61-148		1	12/16/15 14:36	12/17/15 15:31	2037-26-5	
4-Bromofluorobenzene (S)	93	%	53-134		1	12/16/15 14:36	12/17/15 15:31	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.6**	%	0.10	0.10	1		12/28/15 11:01		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: MEOH BLANK **Lab ID: 40126139010** Collected: 12/11/15 00:00 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/16/15 14:36	12/17/15 12:03	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/16/15 14:36	12/17/15 12:03	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/16/15 14:36	12/17/15 12:03	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/16/15 14:36	12/17/15 12:03	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/16/15 14:36	12/17/15 12:03	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Sample: MEOH BLANK **Lab ID: 40126139010** Collected: 12/11/15 00:00 Received: 12/15/15 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/16/15 14:36	12/17/15 12:03	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/16/15 14:36	12/17/15 12:03	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/16/15 14:36	12/17/15 12:03	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	84	%	49-157		1	12/16/15 14:36	12/17/15 12:03	1868-53-7	
Toluene-d8 (S)	95	%	61-148		1	12/16/15 14:36	12/17/15 12:03	2037-26-5	
4-Bromofluorobenzene (S)	83	%	53-134		1	12/16/15 14:36	12/17/15 12:03	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

QC Batch: MSV/31637 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40126139001, 40126139002, 40126139003, 40126139004, 40126139005, 40126139006, 40126139007, 40126139008, 40126139009, 40126139010

METHOD BLANK: 1275034 Matrix: Solid
Associated Lab Samples: 40126139001, 40126139002, 40126139003, 40126139004, 40126139005, 40126139006, 40126139007, 40126139008, 40126139009, 40126139010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	12/17/15 08:11	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	12/17/15 08:11	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	12/17/15 08:11	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	12/17/15 08:11	
1,1-Dichloroethane	ug/kg	<17.6	50.0	12/17/15 08:11	
1,1-Dichloroethene	ug/kg	<17.6	50.0	12/17/15 08:11	
1,1-Dichloropropene	ug/kg	<14.0	50.0	12/17/15 08:11	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	12/17/15 08:11	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	12/17/15 08:11	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	12/17/15 08:11	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	12/17/15 08:11	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	12/17/15 08:11	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	12/17/15 08:11	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	12/17/15 08:11	
1,2-Dichloroethane	ug/kg	<15.0	50.0	12/17/15 08:11	
1,2-Dichloropropane	ug/kg	<16.8	50.0	12/17/15 08:11	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	12/17/15 08:11	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	12/17/15 08:11	
1,3-Dichloropropane	ug/kg	<12.0	50.0	12/17/15 08:11	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	12/17/15 08:11	
2,2-Dichloropropane	ug/kg	<12.6	50.0	12/17/15 08:11	
2-Chlorotoluene	ug/kg	<15.8	50.0	12/17/15 08:11	
4-Chlorotoluene	ug/kg	<13.0	50.0	12/17/15 08:11	
Benzene	ug/kg	<9.2	20.0	12/17/15 08:11	
Bromobenzene	ug/kg	<20.6	50.0	12/17/15 08:11	
Bromochloromethane	ug/kg	<21.4	50.0	12/17/15 08:11	
Bromodichloromethane	ug/kg	<9.8	50.0	12/17/15 08:11	
Bromoform	ug/kg	<19.8	50.0	12/17/15 08:11	
Bromomethane	ug/kg	<69.9	250	12/17/15 08:11	
Carbon tetrachloride	ug/kg	<12.1	50.0	12/17/15 08:11	
Chlorobenzene	ug/kg	<14.8	50.0	12/17/15 08:11	
Chloroethane	ug/kg	<67.0	250	12/17/15 08:11	
Chloroform	ug/kg	<46.4	250	12/17/15 08:11	
Chloromethane	ug/kg	<20.4	50.0	12/17/15 08:11	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	12/17/15 08:11	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	12/17/15 08:11	
Dibromochloromethane	ug/kg	<17.9	50.0	12/17/15 08:11	
Dibromomethane	ug/kg	<19.3	50.0	12/17/15 08:11	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	12/17/15 08:11	
Diisopropyl ether	ug/kg	<17.7	50.0	12/17/15 08:11	

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

METHOD BLANK: 1275034 Matrix: Solid

Associated Lab Samples: 40126139001, 40126139002, 40126139003, 40126139004, 40126139005, 40126139006, 40126139007, 40126139008, 40126139009, 40126139010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<12.4	50.0	12/17/15 08:11	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	12/17/15 08:11	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	12/17/15 08:11	
m&p-Xylene	ug/kg	<34.4	100	12/17/15 08:11	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	12/17/15 08:11	
Methylene Chloride	ug/kg	<16.2	50.0	12/17/15 08:11	
n-Butylbenzene	ug/kg	10.6J	50.0	12/17/15 08:11	
n-Propylbenzene	ug/kg	<11.6	50.0	12/17/15 08:11	
Naphthalene	ug/kg	<40.0	250	12/17/15 08:11	
o-Xylene	ug/kg	<14.0	50.0	12/17/15 08:11	
p-Isopropyltoluene	ug/kg	<12.0	50.0	12/17/15 08:11	
sec-Butylbenzene	ug/kg	<11.9	50.0	12/17/15 08:11	
Styrene	ug/kg	<9.0	50.0	12/17/15 08:11	
tert-Butylbenzene	ug/kg	<9.5	50.0	12/17/15 08:11	
Tetrachloroethene	ug/kg	<12.9	50.0	12/17/15 08:11	
Toluene	ug/kg	<11.2	50.0	12/17/15 08:11	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	12/17/15 08:11	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	12/17/15 08:11	
Trichloroethene	ug/kg	<23.6	50.0	12/17/15 08:11	
Trichlorofluoromethane	ug/kg	<24.7	50.0	12/17/15 08:11	
Vinyl chloride	ug/kg	<21.1	50.0	12/17/15 08:11	
4-Bromofluorobenzene (S)	%	87	53-134	12/17/15 08:11	
Dibromofluoromethane (S)	%	88	49-157	12/17/15 08:11	
Toluene-d8 (S)	%	98	61-148	12/17/15 08:11	

LABORATORY CONTROL SAMPLE: 1275035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2340	94	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2410	96	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2640	105	70-130	
1,1-Dichloroethane	ug/kg	2500	2280	91	70-130	
1,1-Dichloroethene	ug/kg	2500	2190	88	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	2040	81	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2500	100	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2640	106	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2410	96	70-130	
1,2-Dichloroethane	ug/kg	2500	2300	92	70-134	
1,2-Dichloropropane	ug/kg	2500	2750	110	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2320	93	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2310	93	70-130	
Benzene	ug/kg	2500	2310	92	70-130	
Bromodichloromethane	ug/kg	2500	2750	110	70-130	

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

LABORATORY CONTROL SAMPLE: 1275035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/kg	2500	3080	123	48-130	
Bromomethane	ug/kg	2500	2170	87	70-169	
Carbon tetrachloride	ug/kg	2500	2340	94	67-130	
Chlorobenzene	ug/kg	2500	2530	101	70-130	
Chloroethane	ug/kg	2500	1740	70	70-191	
Chloroform	ug/kg	2500	2240	89	70-130	
Chloromethane	ug/kg	2500	1640	65	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2300	92	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2840	114	70-130	
Dibromochloromethane	ug/kg	2500	2600	104	65-130	
Dichlorodifluoromethane	ug/kg	2500	951	38	12-150	
Ethylbenzene	ug/kg	2500	2470	99	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2340	94	70-130	
m&p-Xylene	ug/kg	5000	4990	100	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2440	98	70-130	
Methylene Chloride	ug/kg	2500	2250	90	70-131	
o-Xylene	ug/kg	2500	2470	99	70-130	
Styrene	ug/kg	2500	2390	95	70-130	
Tetrachloroethene	ug/kg	2500	2660	106	70-130	
Toluene	ug/kg	2500	2520	101	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2350	94	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2600	104	65-130	
Trichloroethene	ug/kg	2500	2590	104	70-130	
Trichlorofluoromethane	ug/kg	2500	1780	71	50-150	
Vinyl chloride	ug/kg	2500	2010	80	67-134	
4-Bromofluorobenzene (S)	%			88	53-134	
Dibromofluoromethane (S)	%			90	49-157	
Toluene-d8 (S)	%			99	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1275036 1275037

Parameter	Units	40126139001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1530	1530	1280	1270	84	83	63-130	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1530	1530	1480	1530	97	100	57-136	3	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1530	1530	1650	1650	108	108	70-130	0	20	
1,1-Dichloroethane	ug/kg	<25.0	1530	1530	1320	1370	86	90	62-131	4	23	
1,1-Dichloroethene	ug/kg	<25.0	1530	1530	1170	1090	76	71	42-137	7	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1530	1530	1480	1420	97	93	59-137	4	21	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1530	1530	1520	1390	100	91	33-150	9	25	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1530	1530	1560	1570	102	103	70-130	1	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1530	1530	1510	1540	98	101	70-130	2	20	
1,2-Dichloroethane	ug/kg	<25.0	1530	1530	1360	1430	89	93	68-134	5	20	
1,2-Dichloropropane	ug/kg	<25.0	1530	1530	1610	1660	105	109	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1275036 1275037

Parameter	Units	40126139001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dichlorobenzene	ug/kg	<25.0	1530	1530	1420	1440	93	94	70-130	1	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1530	1530	1410	1480	92	97	69-130	5	20	
Benzene	ug/kg	<25.0	1530	1530	1290	1340	85	87	56-131	3	20	
Bromodichloromethane	ug/kg	<25.0	1530	1530	1660	1690	108	111	64-130	2	20	
Bromoform	ug/kg	<25.0	1530	1530	1870	1780	123	116	48-130	5	20	
Bromomethane	ug/kg	<69.9	1530	1530	1060	1070	69	70	18-169	2	23	
Carbon tetrachloride	ug/kg	<25.0	1530	1530	1260	1280	82	84	59-130	2	20	
Chlorobenzene	ug/kg	<25.0	1530	1530	1500	1500	98	98	70-130	0	20	
Chloroethane	ug/kg	<67.0	1530	1530	840	885	55	58	10-191	5	20	
Chloroform	ug/kg	<46.4	1530	1530	1320	1370	86	89	65-130	3	20	
Chloromethane	ug/kg	<25.0	1530	1530	621	630	41	41	36-132	2	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1530	1530	1320	1290	86	84	59-136	2	24	
cis-1,3-Dichloropropene	ug/kg	<25.0	1530	1530	1630	1670	106	109	60-130	3	20	
Dibromochloromethane	ug/kg	<25.0	1530	1530	1640	1580	107	103	59-130	4	20	
Dichlorodifluoromethane	ug/kg	<25.0	1530	1530	236	245	15	16	10-150	4	27	
Ethylbenzene	ug/kg	<25.0	1530	1530	1390	1390	91	91	64-130	0	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1530	1530	1350	1350	88	88	69-138	0	20	
m&p-Xylene	ug/kg	<50.0	3060	3060	2830	2970	92	97	61-130	5	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1530	1530	1420	1450	93	95	52-134	2	20	
Methylene Chloride	ug/kg	<25.0	1530	1530	1320	1420	87	93	61-131	7	20	
o-Xylene	ug/kg	<25.0	1530	1530	1390	1410	91	92	63-130	2	20	
Styrene	ug/kg	<25.0	1530	1530	1460	1450	96	94	70-130	1	20	
Tetrachloroethene	ug/kg	<25.0	1530	1530	1490	1450	97	95	65-130	2	20	
Toluene	ug/kg	<25.0	1530	1530	1460	1510	96	99	65-130	3	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1530	1530	1340	1360	88	89	55-130	1	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1530	1530	1610	1610	105	106	54-130	0	20	
Trichloroethene	ug/kg	<25.0	1530	1530	1410	1580	92	104	70-130	12	20	
Trichlorofluoromethane	ug/kg	<25.0	1530	1530	802	846	52	55	42-150	5	24	
Vinyl chloride	ug/kg	<25.0	1530	1530	747	799	49	52	35-134	7	20	
4-Bromofluorobenzene (S)	%						93	94	53-134			
Dibromofluoromethane (S)	%						94	97	49-157			
Toluene-d8 (S)	%						104	105	61-148			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

QC Batch: PMST/12277 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40126139001, 40126139002, 40126139003, 40126139004, 40126139005, 40126139006, 40126139007

SAMPLE DUPLICATE: 1278165

Parameter	Units	40126066018 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.9	12.3	4	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

QC Batch: PMST/12280
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40126139008, 40126139009

SAMPLE DUPLICATE: 1278897

Parameter	Units	40126499001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.0	17.0	0	10	

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, Inc.
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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UNIVERSITY AVENUE
Pace Project No.: 40126139

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40126139001	**CS-1**	EPA 5035/5030B	MSV/31637	EPA 8260	MSV/31639
40126139002	**CS-2**	EPA 5035/5030B	MSV/31637	EPA 8260	MSV/31639
40126139003	**CS-3**	EPA 5035/5030B	MSV/31637	EPA 8260	MSV/31639
40126139004	**CS-4**	EPA 5035/5030B	MSV/31637	EPA 8260	MSV/31639
40126139005	**CS-5**	EPA 5035/5030B	MSV/31637	EPA 8260	MSV/31639
40126139006	**CS-6**	EPA 5035/5030B	MSV/31637	EPA 8260	MSV/31639
40126139007	**RS-12**	EPA 5035/5030B	MSV/31637	EPA 8260	MSV/31639
40126139008	**RS-15**	EPA 5035/5030B	MSV/31637	EPA 8260	MSV/31639
40126139009	**RS-16**	EPA 5035/5030B	MSV/31637	EPA 8260	MSV/31639
40126139010	**MEOH BLANK**	EPA 5035/5030B	MSV/31637	EPA 8260	MSV/31639
40126139001	**CS-1**	ASTM D2974-87	PMST/12277		
40126139002	**CS-2**	ASTM D2974-87	PMST/12277		
40126139003	**CS-3**	ASTM D2974-87	PMST/12277		
40126139004	**CS-4**	ASTM D2974-87	PMST/12277		
40126139005	**CS-5**	ASTM D2974-87	PMST/12277		
40126139006	**CS-6**	ASTM D2974-87	PMST/12277		
40126139007	**RS-12**	ASTM D2974-87	PMST/12277		
40126139008	**RS-15**	ASTM D2974-87	PMST/12280		
40126139009	**RS-16**	ASTM D2974-87	PMST/12280		

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

Pace Analytical®
www.pacelabs.com

VMV

40126139

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	Ayres Associates
Branch/Location:	Madison
Project Contact:	Tom Gaieck
Phone:	608 443 1200
Project Number:	
Project Name:	University Avenue
Project State:	Wisconsin
Sampled By (Print):	Thomas P Gaieck
Sampled By (Sign):	Thomas P Gaieck
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	Tom Gaieck
Mail To Company:	Ayres Associates
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	E	VOC			
001	CS-1	12/11	1:00	S		X		1-40mlV F	1-4ozp A	
002	CS-2	12/11	1:10	S		X				
003	CS-3	12/11	1:15	S		X				
004	CS-4	12/11	1:25	S		X				
005	CS-5	12/11	1:30	S		X				
006	CS-6	12/11	1:45	S		X				
007	RS-12	12/11	1:50	S		X				
008	RS-15	12/11	1:55	S		X				
009	RS-16	12/11	2:00	S		X				
010	MeOH Blank									

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

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

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

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Thomas P Gaieck	12/14/15		
Waltco	12-15-15 0850	Susan Wyly Fax	12-15-15 0850

PACE Project No.: 40126139

Receipt Temp = 12.0 I °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal: Present / ~~Not Present~~ Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: Ayres Assoc. Project #: **WO# : 40126139**

40126139

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Walker

Tracking #: 938011

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

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Thermometer Used SR32 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3 /Corr: 3 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☒ yes ☐ no

Person examining contents:
Date: 12-15-15
Initials: SW

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☐Yes	☑No	☐N/A	12. No collect date + time on all 4 orp. 12-15-15 SW
-Includes date/time/ID/Analysis Matrix: S				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes	☑No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	14.
Trip Blank Present:	☐Yes	☐No	☑N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution: Original and copy of COC in shipment. 12-15-15 SW

Project Manager Review: JJ for DM **Date:** 12-15-15

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 28, 2015

Tom Gaieck
Ayres & Associates, Inc
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

Dear Tom Gaieck:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

The methanol blank received in this cooler was reported with work order 40126487.

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40126484001	**RS-17**	Solid	12/21/15 09:40	12/23/15 08:50

Pace Analytical Services, Inc.
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SAMPLE ANALYTE COUNT

Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40126484001	**RS-17**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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SUMMARY OF DETECTION

Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40126484001	**RS-17**					
EPA 8260	cis-1,2-Dichloroethene	41.9J	ug/kg	74.2	12/28/15 15:47	
EPA 8260	Tetrachloroethene	335	ug/kg	74.2	12/28/15 15:47	
EPA 8260	Trichloroethene	39.8J	ug/kg	74.2	12/28/15 15:47	
ASTM D2974-87	Percent Moisture	19.1	%	0.10	12/23/15 16:58	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

Sample: RS-17 **Lab ID: 40126484001** Collected: 12/21/15 09:40 Received: 12/23/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/24/15 09:34	12/28/15 15:47	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/24/15 09:34	12/28/15 15:47	75-00-3	L2,W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/24/15 09:34	12/28/15 15:47	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/24/15 09:34	12/28/15 15:47	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	75-35-4	W
cis-1,2-Dichloroethene	**41.9J**	ug/kg	74.2	30.9	1	12/24/15 09:34	12/28/15 15:47	156-59-2	
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/24/15 09:34	12/28/15 15:47	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

Sample: RS-17 **Lab ID: 40126484001** Collected: 12/21/15 09:40 Received: 12/23/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	79-34-5	W
Tetrachloroethene	**335**	ug/kg	74.2	30.9	1	12/24/15 09:34	12/28/15 15:47	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/24/15 09:34	12/28/15 15:47	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	79-00-5	W
Trichloroethene	**39.8J**	ug/kg	74.2	30.9	1	12/24/15 09:34	12/28/15 15:47	79-01-6	
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/24/15 09:34	12/28/15 15:47	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 15:47	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	88	%	49-157		1	12/24/15 09:34	12/28/15 15:47	1868-53-7	
Toluene-d8 (S)	96	%	61-148		1	12/24/15 09:34	12/28/15 15:47	2037-26-5	
4-Bromofluorobenzene (S)	81	%	53-134		1	12/24/15 09:34	12/28/15 15:47	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.1**	%	0.10	0.10	1		12/23/15 16:58		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

QC Batch: MSV/31732
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40126484001

METHOD BLANK: 1278357
Matrix: Solid
Associated Lab Samples: 40126484001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	12/28/15 08:59	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	12/28/15 08:59	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	12/28/15 08:59	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	12/28/15 08:59	
1,1-Dichloroethane	ug/kg	<17.6	50.0	12/28/15 08:59	
1,1-Dichloroethene	ug/kg	<17.6	50.0	12/28/15 08:59	
1,1-Dichloropropene	ug/kg	<14.0	50.0	12/28/15 08:59	
1,2,3-Trichlorobenzene	ug/kg	23.7J	50.0	12/28/15 08:59	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	12/28/15 08:59	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	12/28/15 08:59	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	12/28/15 08:59	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	12/28/15 08:59	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	12/28/15 08:59	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	12/28/15 08:59	
1,2-Dichloroethane	ug/kg	<15.0	50.0	12/28/15 08:59	
1,2-Dichloropropane	ug/kg	<16.8	50.0	12/28/15 08:59	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	12/28/15 08:59	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	12/28/15 08:59	
1,3-Dichloropropane	ug/kg	<12.0	50.0	12/28/15 08:59	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	12/28/15 08:59	
2,2-Dichloropropane	ug/kg	<12.6	50.0	12/28/15 08:59	
2-Chlorotoluene	ug/kg	<15.8	50.0	12/28/15 08:59	
4-Chlorotoluene	ug/kg	<13.0	50.0	12/28/15 08:59	
Benzene	ug/kg	<9.2	20.0	12/28/15 08:59	
Bromobenzene	ug/kg	<20.6	50.0	12/28/15 08:59	
Bromochloromethane	ug/kg	<21.4	50.0	12/28/15 08:59	
Bromodichloromethane	ug/kg	<9.8	50.0	12/28/15 08:59	
Bromoform	ug/kg	<19.8	50.0	12/28/15 08:59	
Bromomethane	ug/kg	<69.9	250	12/28/15 08:59	
Carbon tetrachloride	ug/kg	<12.1	50.0	12/28/15 08:59	
Chlorobenzene	ug/kg	<14.8	50.0	12/28/15 08:59	
Chloroethane	ug/kg	<67.0	250	12/28/15 08:59	
Chloroform	ug/kg	<46.4	250	12/28/15 08:59	
Chloromethane	ug/kg	<20.4	50.0	12/28/15 08:59	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	12/28/15 08:59	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	12/28/15 08:59	
Dibromochloromethane	ug/kg	<17.9	50.0	12/28/15 08:59	
Dibromomethane	ug/kg	<19.3	50.0	12/28/15 08:59	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	12/28/15 08:59	
Diisopropyl ether	ug/kg	<17.7	50.0	12/28/15 08:59	
Ethylbenzene	ug/kg	<12.4	50.0	12/28/15 08:59	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

METHOD BLANK: 1278357 Matrix: Solid
Associated Lab Samples: 40126484001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	34.8J	50.0	12/28/15 08:59	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	12/28/15 08:59	
m&p-Xylene	ug/kg	<34.4	100	12/28/15 08:59	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	12/28/15 08:59	
Methylene Chloride	ug/kg	<16.2	50.0	12/28/15 08:59	
n-Butylbenzene	ug/kg	<10.5	50.0	12/28/15 08:59	
n-Propylbenzene	ug/kg	<11.6	50.0	12/28/15 08:59	
Naphthalene	ug/kg	<40.0	250	12/28/15 08:59	
o-Xylene	ug/kg	<14.0	50.0	12/28/15 08:59	
p-Isopropyltoluene	ug/kg	<12.0	50.0	12/28/15 08:59	
sec-Butylbenzene	ug/kg	<11.9	50.0	12/28/15 08:59	
Styrene	ug/kg	<9.0	50.0	12/28/15 08:59	
tert-Butylbenzene	ug/kg	<9.5	50.0	12/28/15 08:59	
Tetrachloroethene	ug/kg	<12.9	50.0	12/28/15 08:59	
Toluene	ug/kg	<11.2	50.0	12/28/15 08:59	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	12/28/15 08:59	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	12/28/15 08:59	
Trichloroethene	ug/kg	<23.6	50.0	12/28/15 08:59	
Trichlorofluoromethane	ug/kg	<24.7	50.0	12/28/15 08:59	
Vinyl chloride	ug/kg	<21.1	50.0	12/28/15 08:59	
4-Bromofluorobenzene (S)	%	84	53-134	12/28/15 08:59	
Dibromofluoromethane (S)	%	90	49-157	12/28/15 08:59	
Toluene-d8 (S)	%	95	61-148	12/28/15 08:59	

LABORATORY CONTROL SAMPLE: 1278358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2210	88	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2360	94	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2600	104	70-130	
1,1-Dichloroethane	ug/kg	2500	2070	83	70-130	
1,1-Dichloroethene	ug/kg	2500	1980	79	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	1830	73	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2070	83	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2500	100	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2340	94	70-130	
1,2-Dichloroethane	ug/kg	2500	2170	87	70-134	
1,2-Dichloropropane	ug/kg	2500	2720	109	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2340	93	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2310	93	70-130	
Benzene	ug/kg	2500	2220	89	70-130	
Bromodichloromethane	ug/kg	2500	2730	109	70-130	
Bromoform	ug/kg	2500	3090	124	48-130	
Bromomethane	ug/kg	2500	2090	84	70-169	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

LABORATORY CONTROL SAMPLE: 1278358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2110	84	67-130	
Chlorobenzene	ug/kg	2500	2430	97	70-130	
Chloroethane	ug/kg	2500	1610	64	70-191	L0
Chloroform	ug/kg	2500	2160	86	70-130	
Chloromethane	ug/kg	2500	1460	59	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2180	87	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2750	110	70-130	
Dibromochloromethane	ug/kg	2500	2470	99	65-130	
Dichlorodifluoromethane	ug/kg	2500	880	35	12-150	
Ethylbenzene	ug/kg	2500	2340	94	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2260	90	70-130	
m&p-Xylene	ug/kg	5000	4880	98	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2220	89	70-130	
Methylene Chloride	ug/kg	2500	2100	84	70-131	
o-Xylene	ug/kg	2500	2360	94	70-130	
Styrene	ug/kg	2500	2310	92	70-130	
Tetrachloroethene	ug/kg	2500	2520	101	70-130	
Toluene	ug/kg	2500	2450	98	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2230	89	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2320	93	65-130	
Trichloroethene	ug/kg	2500	2530	101	70-130	
Trichlorofluoromethane	ug/kg	2500	1700	68	50-150	
Vinyl chloride	ug/kg	2500	1710	69	67-134	
4-Bromofluorobenzene (S)	%			84	53-134	
Dibromofluoromethane (S)	%			86	49-157	
Toluene-d8 (S)	%			94	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1278359 1278360

Parameter	Units	40126484001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1550	1550	1190	1150	77	74	63-130	4	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1550	1550	1470	1530	95	99	57-136	4	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1550	1550	1660	1680	107	109	70-130	1	20	
1,1-Dichloroethane	ug/kg	<25.0	1550	1550	1260	1260	82	81	62-131	0	23	
1,1-Dichloroethene	ug/kg	<25.0	1550	1550	1060	1010	69	65	42-137	5	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1550	1550	1490	1450	94	91	59-137	2	21	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1550	1550	1370	1490	89	97	33-150	9	25	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1550	1550	1580	1510	102	97	70-130	5	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1550	1550	1460	1580	95	102	70-130	8	20	
1,2-Dichloroethane	ug/kg	<25.0	1550	1550	1270	1320	82	86	68-134	4	20	
1,2-Dichloropropane	ug/kg	<25.0	1550	1550	1630	1570	106	102	70-130	4	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1550	1550	1480	1510	96	98	70-130	2	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1550	1550	1430	1510	93	98	69-130	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1278359 1278360

Parameter	Units	40126484001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1550	1550	1280	1310	83	85	56-131	2	20	
Bromodichloromethane	ug/kg	<25.0	1550	1550	1630	1610	105	104	64-130	1	20	
Bromoform	ug/kg	<25.0	1550	1550	2000	1910	130	124	48-130	5	20	
Bromomethane	ug/kg	<69.9	1550	1550	1270	1380	82	89	18-169	8	23	
Carbon tetrachloride	ug/kg	<25.0	1550	1550	1100	1090	71	71	59-130	0	20	
Chlorobenzene	ug/kg	<25.0	1550	1550	1500	1510	97	98	70-130	0	20	
Chloroethane	ug/kg	<67.0	1550	1550	975	957	63	62	10-191	2	20	
Chloroform	ug/kg	<46.4	1550	1550	1320	1290	85	83	65-130	3	20	
Chloromethane	ug/kg	<25.0	1550	1550	924	985	60	64	36-132	6	20	
cis-1,2-Dichloroethene	ug/kg	41.9J	1550	1550	1300	1340	81	84	59-136	4	24	
cis-1,3-Dichloropropene	ug/kg	<25.0	1550	1550	1560	1520	101	99	60-130	2	20	
Dibromochloromethane	ug/kg	<25.0	1550	1550	1660	1640	107	106	59-130	1	20	
Dichlorodifluoromethane	ug/kg	<25.0	1550	1550	573	596	37	39	10-150	4	27	
Ethylbenzene	ug/kg	<25.0	1550	1550	1360	1400	88	91	64-130	3	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1550	1550	1280	1310	83	85	69-138	2	20	
m&p-Xylene	ug/kg	<50.0	3090	3090	2850	2930	92	95	61-130	3	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1550	1550	1360	1400	88	91	52-134	3	20	
Methylene Chloride	ug/kg	<25.0	1550	1550	1300	1340	84	87	61-131	3	20	
o-Xylene	ug/kg	<25.0	1550	1550	1420	1390	92	90	63-130	2	20	
Styrene	ug/kg	<25.0	1550	1550	1460	1480	95	96	70-130	1	20	
Tetrachloroethene	ug/kg	335	1550	1550	1730	1750	91	92	65-130	1	20	
Toluene	ug/kg	<25.0	1550	1550	1490	1420	97	92	65-130	5	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1550	1550	1220	1300	79	84	55-130	6	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1550	1550	1520	1580	98	102	54-130	4	20	
Trichloroethene	ug/kg	39.8J	1550	1550	1470	1470	92	92	70-130	0	20	
Trichlorofluoromethane	ug/kg	<25.0	1550	1550	833	871	54	56	42-150	4	24	
Vinyl chloride	ug/kg	<25.0	1550	1550	966	987	62	64	35-134	2	20	
4-Bromofluorobenzene (S)	%						85	89	53-134			
Dibromofluoromethane (S)	%						84	89	49-157			
Toluene-d8 (S)	%						95	98	61-148			

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

QC Batch: PMST/12278
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40126484001

SAMPLE DUPLICATE: 1278171

Parameter	Units	40126511001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.5	13.3	6	10	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UNIVERSITY AVENUE
Pace Project No.: 40126484

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40126484001	**RS-17**	EPA 5035/5030B	MSV/31732	EPA 8260	MSV/31733
40126484001	**RS-17**	ASTM D2974-87	PMST/12278		

BH

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

Page 1 of

40126484

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	Ayres Associates
Branch/Location:	Madison
Project Contact:	Tom Gaieck
Phone:	608 443 2700
Project Number:	
Project Name:	University Ave Reconst
Project State:	Wisconsin
Sampled By (Print):	Thomas P. Gaieck
Sampled By (Sign):	Thomas P. Gaieck
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Tom Gaieck
Mail To Company:	Ayres Associates
Mail To Address:	5201 E Terrace Drive Suite 200 Madison WI 53718
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	RS-17	12/21	9:40	S	N	F	VOC	Rush	1-40ml V	1-402
002	MeOH Blank				X		X		4	

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

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Thomas P. Gaieck	12/22/15		
Relinquished By:	Date/Time:	Received By:	Date/Time:
[illegible]	12-23-15 0800	[illegible]	12-23-15 0800
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.
40126484
Receipt Temp = 20.1 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

Sample Condition Upon Receipt

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

Pace Analytical™

Project #: WO#: 40126484

40126484

Client Name: Ayres

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Walco

Tracking #: 944666

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

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 12-23-15
Initials: SW

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present: 12-23-15 SW	☒Yes	☐No	☐N/A	1. Received copy from PM - Not in
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2. Shipment. 12-23-15 SW
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☒Yes	☐No	☐N/A	7. RUSH 12-23-15 SW
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☒N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☐Yes	☒No	☐N/A	12. No collect time or date on
-Includes date/time/ID/Analysis Matrix: S				4ozp. 12-23-15 SW
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☒N/A	13. ☒ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes	☒No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: JJ for DM **Date:** 12-23-15

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 30, 2015

Tom Gaieck
Ayres & Associates, Inc
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Dear Tom Gaieck:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40126487001	**RS-15**	Solid	12/17/15 09:30	12/23/15 08:50
40126487002	**CS-7**	Solid	12/17/15 13:40	12/23/15 08:50
40126487003	**CS-8**	Solid	12/17/15 14:10	12/23/15 08:50
40126484002	**MEOH BLANK**	Solid	12/21/15 00:00	12/23/15 08:50

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SAMPLE ANALYTE COUNT

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40126487001	**RS-15**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40126487002	**CS-7**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40126487003	**CS-8**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40126484002	**MEOH BLANK**	EPA 8260	SMT	64	PASI-G

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SUMMARY OF DETECTION

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40126487001	**RS-15**					
EPA 8260	Methylene Chloride	33.0J	ug/kg	66.0	12/28/15 21:23	
ASTM D2974-87	Percent Moisture	9.1	%	0.10	12/29/15 10:30	
40126487002	**CS-7**					
EPA 8260	Methylene Chloride	39.3J	ug/kg	64.4	12/28/15 21:46	
ASTM D2974-87	Percent Moisture	6.9	%	0.10	12/29/15 10:30	
40126487003	**CS-8**					
EPA 8260	Methylene Chloride	39.5J	ug/kg	63.9	12/28/15 22:09	
ASTM D2974-87	Percent Moisture	6.1	%	0.10	12/29/15 10:30	
40126484002	**MEOH BLANK**					
EPA 8260	Methylene Chloride	33.9J	ug/kg	60.0	12/28/15 16:33	

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ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Sample: RS-15 **Lab ID: 40126487001** Collected: 12/17/15 09:30 Received: 12/23/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/24/15 09:34	12/28/15 21:23	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/24/15 09:34	12/28/15 21:23	75-00-3	L2,W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/24/15 09:34	12/28/15 21:23	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/24/15 09:34	12/28/15 21:23	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	99-87-6	W
Methylene Chloride	**33.0J**	ug/kg	66.0	27.5	1	12/24/15 09:34	12/28/15 21:23	75-09-2	
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/24/15 09:34	12/28/15 21:23	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Sample: RS-15 **Lab ID: 40126487001** Collected: 12/17/15 09:30 Received: 12/23/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/24/15 09:34	12/28/15 21:23	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/24/15 09:34	12/28/15 21:23	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:23	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	90	%	49-157		1	12/24/15 09:34	12/28/15 21:23	1868-53-7	
Toluene-d8 (S)	97	%	61-148		1	12/24/15 09:34	12/28/15 21:23	2037-26-5	
4-Bromofluorobenzene (S)	80	%	53-134		1	12/24/15 09:34	12/28/15 21:23	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.1**	%	0.10	0.10	1		12/29/15 10:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Sample: CS-7 **Lab ID: 40126487002** Collected: 12/17/15 13:40 Received: 12/23/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/24/15 09:34	12/28/15 21:46	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/24/15 09:34	12/28/15 21:46	75-00-3	L2,W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/24/15 09:34	12/28/15 21:46	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/24/15 09:34	12/28/15 21:46	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	99-87-6	W
Methylene Chloride	**39.3J**	ug/kg	64.4	26.8	1	12/24/15 09:34	12/28/15 21:46	75-09-2	
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/24/15 09:34	12/28/15 21:46	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Sample: CS-7 **Lab ID: 40126487002** Collected: 12/17/15 13:40 Received: 12/23/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/24/15 09:34	12/28/15 21:46	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/24/15 09:34	12/28/15 21:46	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 21:46	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	87	%	49-157		1	12/24/15 09:34	12/28/15 21:46	1868-53-7	
Toluene-d8 (S)	95	%	61-148		1	12/24/15 09:34	12/28/15 21:46	2037-26-5	
4-Bromofluorobenzene (S)	78	%	53-134		1	12/24/15 09:34	12/28/15 21:46	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.9**	%	0.10	0.10	1		12/29/15 10:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Sample: CS-8 **Lab ID: 40126487003** Collected: 12/17/15 14:10 Received: 12/23/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/24/15 09:34	12/28/15 22:09	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/24/15 09:34	12/28/15 22:09	75-00-3	L2,W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/24/15 09:34	12/28/15 22:09	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/24/15 09:34	12/28/15 22:09	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	99-87-6	W
Methylene Chloride	**39.5J**	ug/kg	63.9	26.6	1	12/24/15 09:34	12/28/15 22:09	75-09-2	
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/24/15 09:34	12/28/15 22:09	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Sample: CS-8 **Lab ID: 40126487003** Collected: 12/17/15 14:10 Received: 12/23/15 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/24/15 09:34	12/28/15 22:09	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/24/15 09:34	12/28/15 22:09	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 22:09	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	91	%	49-157		1	12/24/15 09:34	12/28/15 22:09	1868-53-7	
Toluene-d8 (S)	102	%	61-148		1	12/24/15 09:34	12/28/15 22:09	2037-26-5	
4-Bromofluorobenzene (S)	84	%	53-134		1	12/24/15 09:34	12/28/15 22:09	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.1**	%	0.10	0.10	1		12/29/15 10:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Sample: MEOH BLANK **Lab ID: 40126484002** Collected: 12/21/15 00:00 Received: 12/23/15 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/24/15 09:34	12/28/15 16:33	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/24/15 09:34	12/28/15 16:33	75-00-3	L2,W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/24/15 09:34	12/28/15 16:33	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/24/15 09:34	12/28/15 16:33	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	99-87-6	W
Methylene Chloride	**33.9J**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	75-09-2	
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/24/15 09:34	12/28/15 16:33	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Sample: MEOH BLANK **Lab ID: 40126484002** Collected: 12/21/15 00:00 Received: 12/23/15 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/24/15 09:34	12/28/15 16:33	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/24/15 09:34	12/28/15 16:33	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/24/15 09:34	12/28/15 16:33	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	84	%	49-157		1	12/24/15 09:34	12/28/15 16:33	1868-53-7	
Toluene-d8 (S)	82	%	61-148		1	12/24/15 09:34	12/28/15 16:33	2037-26-5	
4-Bromofluorobenzene (S)	78	%	53-134		1	12/24/15 09:34	12/28/15 16:33	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

QC Batch: MSV/31732 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40126484002, 40126487001, 40126487002, 40126487003

METHOD BLANK: 1278357 Matrix: Solid
Associated Lab Samples: 40126484002, 40126487001, 40126487002, 40126487003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	12/28/15 08:59	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	12/28/15 08:59	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	12/28/15 08:59	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	12/28/15 08:59	
1,1-Dichloroethane	ug/kg	<17.6	50.0	12/28/15 08:59	
1,1-Dichloroethene	ug/kg	<17.6	50.0	12/28/15 08:59	
1,1-Dichloropropene	ug/kg	<14.0	50.0	12/28/15 08:59	
1,2,3-Trichlorobenzene	ug/kg	23.7J	50.0	12/28/15 08:59	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	12/28/15 08:59	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	12/28/15 08:59	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	12/28/15 08:59	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	12/28/15 08:59	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	12/28/15 08:59	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	12/28/15 08:59	
1,2-Dichloroethane	ug/kg	<15.0	50.0	12/28/15 08:59	
1,2-Dichloropropane	ug/kg	<16.8	50.0	12/28/15 08:59	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	12/28/15 08:59	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	12/28/15 08:59	
1,3-Dichloropropane	ug/kg	<12.0	50.0	12/28/15 08:59	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	12/28/15 08:59	
2,2-Dichloropropane	ug/kg	<12.6	50.0	12/28/15 08:59	
2-Chlorotoluene	ug/kg	<15.8	50.0	12/28/15 08:59	
4-Chlorotoluene	ug/kg	<13.0	50.0	12/28/15 08:59	
Benzene	ug/kg	<9.2	20.0	12/28/15 08:59	
Bromobenzene	ug/kg	<20.6	50.0	12/28/15 08:59	
Bromochloromethane	ug/kg	<21.4	50.0	12/28/15 08:59	
Bromodichloromethane	ug/kg	<9.8	50.0	12/28/15 08:59	
Bromoform	ug/kg	<19.8	50.0	12/28/15 08:59	
Bromomethane	ug/kg	<69.9	250	12/28/15 08:59	
Carbon tetrachloride	ug/kg	<12.1	50.0	12/28/15 08:59	
Chlorobenzene	ug/kg	<14.8	50.0	12/28/15 08:59	
Chloroethane	ug/kg	<67.0	250	12/28/15 08:59	
Chloroform	ug/kg	<46.4	250	12/28/15 08:59	
Chloromethane	ug/kg	<20.4	50.0	12/28/15 08:59	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	12/28/15 08:59	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	12/28/15 08:59	
Dibromochloromethane	ug/kg	<17.9	50.0	12/28/15 08:59	
Dibromomethane	ug/kg	<19.3	50.0	12/28/15 08:59	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	12/28/15 08:59	
Diisopropyl ether	ug/kg	<17.7	50.0	12/28/15 08:59	
Ethylbenzene	ug/kg	<12.4	50.0	12/28/15 08:59	

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

METHOD BLANK: 1278357 Matrix: Solid
Associated Lab Samples: 40126484002, 40126487001, 40126487002, 40126487003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	34.8J	50.0	12/28/15 08:59	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	12/28/15 08:59	
m&p-Xylene	ug/kg	<34.4	100	12/28/15 08:59	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	12/28/15 08:59	
Methylene Chloride	ug/kg	<16.2	50.0	12/28/15 08:59	
n-Butylbenzene	ug/kg	<10.5	50.0	12/28/15 08:59	
n-Propylbenzene	ug/kg	<11.6	50.0	12/28/15 08:59	
Naphthalene	ug/kg	<40.0	250	12/28/15 08:59	
o-Xylene	ug/kg	<14.0	50.0	12/28/15 08:59	
p-Isopropyltoluene	ug/kg	<12.0	50.0	12/28/15 08:59	
sec-Butylbenzene	ug/kg	<11.9	50.0	12/28/15 08:59	
Styrene	ug/kg	<9.0	50.0	12/28/15 08:59	
tert-Butylbenzene	ug/kg	<9.5	50.0	12/28/15 08:59	
Tetrachloroethene	ug/kg	<12.9	50.0	12/28/15 08:59	
Toluene	ug/kg	<11.2	50.0	12/28/15 08:59	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	12/28/15 08:59	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	12/28/15 08:59	
Trichloroethene	ug/kg	<23.6	50.0	12/28/15 08:59	
Trichlorofluoromethane	ug/kg	<24.7	50.0	12/28/15 08:59	
Vinyl chloride	ug/kg	<21.1	50.0	12/28/15 08:59	
4-Bromofluorobenzene (S)	%	84	53-134	12/28/15 08:59	
Dibromofluoromethane (S)	%	90	49-157	12/28/15 08:59	
Toluene-d8 (S)	%	95	61-148	12/28/15 08:59	

LABORATORY CONTROL SAMPLE: 1278358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2210	88	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2360	94	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2600	104	70-130	
1,1-Dichloroethane	ug/kg	2500	2070	83	70-130	
1,1-Dichloroethene	ug/kg	2500	1980	79	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	1830	73	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2070	83	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2500	100	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2340	94	70-130	
1,2-Dichloroethane	ug/kg	2500	2170	87	70-134	
1,2-Dichloropropane	ug/kg	2500	2720	109	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2340	93	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2310	93	70-130	
Benzene	ug/kg	2500	2220	89	70-130	
Bromodichloromethane	ug/kg	2500	2730	109	70-130	
Bromoform	ug/kg	2500	3090	124	48-130	
Bromomethane	ug/kg	2500	2090	84	70-169	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

LABORATORY CONTROL SAMPLE: 1278358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2110	84	67-130	
Chlorobenzene	ug/kg	2500	2430	97	70-130	
Chloroethane	ug/kg	2500	1610	64	70-191	L0
Chloroform	ug/kg	2500	2160	86	70-130	
Chloromethane	ug/kg	2500	1460	59	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2180	87	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2750	110	70-130	
Dibromochloromethane	ug/kg	2500	2470	99	65-130	
Dichlorodifluoromethane	ug/kg	2500	880	35	12-150	
Ethylbenzene	ug/kg	2500	2340	94	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2260	90	70-130	
m&p-Xylene	ug/kg	5000	4880	98	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2220	89	70-130	
Methylene Chloride	ug/kg	2500	2100	84	70-131	
o-Xylene	ug/kg	2500	2360	94	70-130	
Styrene	ug/kg	2500	2310	92	70-130	
Tetrachloroethene	ug/kg	2500	2520	101	70-130	
Toluene	ug/kg	2500	2450	98	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2230	89	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2320	93	65-130	
Trichloroethene	ug/kg	2500	2530	101	70-130	
Trichlorofluoromethane	ug/kg	2500	1700	68	50-150	
Vinyl chloride	ug/kg	2500	1710	69	67-134	
4-Bromofluorobenzene (S)	%			84	53-134	
Dibromofluoromethane (S)	%			86	49-157	
Toluene-d8 (S)	%			94	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1278359 1278360

Parameter	Units	40126484001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1550	1550	1190	1150	77	74	63-130	4	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1550	1550	1470	1530	95	99	57-136	4	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1550	1550	1660	1680	107	109	70-130	1	20	
1,1-Dichloroethane	ug/kg	<25.0	1550	1550	1260	1260	82	81	62-131	0	23	
1,1-Dichloroethene	ug/kg	<25.0	1550	1550	1060	1010	69	65	42-137	5	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1550	1550	1490	1450	94	91	59-137	2	21	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1550	1550	1370	1490	89	97	33-150	9	25	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1550	1550	1580	1510	102	97	70-130	5	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1550	1550	1460	1580	95	102	70-130	8	20	
1,2-Dichloroethane	ug/kg	<25.0	1550	1550	1270	1320	82	86	68-134	4	20	
1,2-Dichloropropane	ug/kg	<25.0	1550	1550	1630	1570	106	102	70-130	4	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1550	1550	1480	1510	96	98	70-130	2	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1550	1550	1430	1510	93	98	69-130	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1278359 1278360

Parameter	Units	40126484001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1550	1550	1280	1310	83	85	56-131	2	20	
Bromodichloromethane	ug/kg	<25.0	1550	1550	1630	1610	105	104	64-130	1	20	
Bromoform	ug/kg	<25.0	1550	1550	2000	1910	130	124	48-130	5	20	
Bromomethane	ug/kg	<69.9	1550	1550	1270	1380	82	89	18-169	8	23	
Carbon tetrachloride	ug/kg	<25.0	1550	1550	1100	1090	71	71	59-130	0	20	
Chlorobenzene	ug/kg	<25.0	1550	1550	1500	1510	97	98	70-130	0	20	
Chloroethane	ug/kg	<67.0	1550	1550	975	957	63	62	10-191	2	20	
Chloroform	ug/kg	<46.4	1550	1550	1320	1290	85	83	65-130	3	20	
Chloromethane	ug/kg	<25.0	1550	1550	924	985	60	64	36-132	6	20	
cis-1,2-Dichloroethene	ug/kg	41.9J	1550	1550	1300	1340	81	84	59-136	4	24	
cis-1,3-Dichloropropene	ug/kg	<25.0	1550	1550	1560	1520	101	99	60-130	2	20	
Dibromochloromethane	ug/kg	<25.0	1550	1550	1660	1640	107	106	59-130	1	20	
Dichlorodifluoromethane	ug/kg	<25.0	1550	1550	573	596	37	39	10-150	4	27	
Ethylbenzene	ug/kg	<25.0	1550	1550	1360	1400	88	91	64-130	3	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1550	1550	1280	1310	83	85	69-138	2	20	
m&p-Xylene	ug/kg	<50.0	3090	3090	2850	2930	92	95	61-130	3	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1550	1550	1360	1400	88	91	52-134	3	20	
Methylene Chloride	ug/kg	<25.0	1550	1550	1300	1340	84	87	61-131	3	20	
o-Xylene	ug/kg	<25.0	1550	1550	1420	1390	92	90	63-130	2	20	
Styrene	ug/kg	<25.0	1550	1550	1460	1480	95	96	70-130	1	20	
Tetrachloroethene	ug/kg	335	1550	1550	1730	1750	91	92	65-130	1	20	
Toluene	ug/kg	<25.0	1550	1550	1490	1420	97	92	65-130	5	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1550	1550	1220	1300	79	84	55-130	6	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1550	1550	1520	1580	98	102	54-130	4	20	
Trichloroethene	ug/kg	39.8J	1550	1550	1470	1470	92	92	70-130	0	20	
Trichlorofluoromethane	ug/kg	<25.0	1550	1550	833	871	54	56	42-150	4	24	
Vinyl chloride	ug/kg	<25.0	1550	1550	966	987	62	64	35-134	2	20	
4-Bromofluorobenzene (S)	%						85	89	53-134			
Dibromofluoromethane (S)	%						84	89	49-157			
Toluene-d8 (S)	%						95	98	61-148			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

QC Batch: PMST/12285 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40126487001, 40126487002, 40126487003

SAMPLE DUPLICATE: 1279064

Parameter	Units	40126300020 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.9	23.6	3	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALIFIERS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UNIVERSITY AVENUE
Pace Project No.: 40126487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40126484002	**MEOH BLANK**	EPA 5035/5030B	MSV/31732	EPA 8260	MSV/31733
40126487001	**RS-15**	EPA 5035/5030B	MSV/31732	EPA 8260	MSV/31733
40126487002	**CS-7**	EPA 5035/5030B	MSV/31732	EPA 8260	MSV/31733
40126487003	**CS-8**	EPA 5035/5030B	MSV/31732	EPA 8260	MSV/31733
40126487001	**RS-15**	ASTM D2974-87	PMST/12285		
40126487002	**CS-7**	ASTM D2974-87	PMST/12285		
40126487003	**CS-8**	ASTM D2974-87	PMST/12285		

BH

401260487

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

Page 1 of

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	Ayres Associates
Branch/Location:	Madison
Project Contact:	Tom Grieck
Phone:	608 443 1300
Project Number:	
Project Name:	Waverly Hy Arsenic
Project State:	Wisconsin
Sampled By (Print):	Thomas P Grieck
Sampled By (Sign):	Thomas P Grieck
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Tom Grieck
Mail To Company:	Ayres Associates
Mail To Address:	5201 E Terrace Dr Suite 200 Madison WI 53718
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	RS-15	12/1/17	9:30	S	N	F	VOC	1-40mlV F, 1-40zp A		
002	CS-7	12/1/17	1:40	S	X	X				
003	CS-8	12/1/17	2:10	S	X	X				
	MEOH Blank				X	X				

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

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Thomas P Grieck	12/2/15		
Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-2-15 0850		12-2-15 0850
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.

Receipt Temp: 0.1 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: Ayres

Project #: **WO#: 40126487**

40126487

Courier: ☐ Fed Ex ☐ UPS ☑ Client ☐ Pace Other: Walter

Tracking #: 944666

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

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:
Date: 12-23-15
Initials: SKW

		Comments:
Chain of Custody Present:	☐Yes ☑No ☐N/A	1. Received copy from PM – COC not in shipment. 12-23-15 SKW
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. No collect date + time on all 40zp. 12-23-15 SKW
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☑No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☐Yes ☐No ☑N/A	15. No MEOH Blank in shipment, listed on COC. 12-23-15 SKW
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Anita Krom **Date:** 12/23/15

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 06, 2016

Tom Gaieck
Ayres & Associates, Inc
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: UNIVERSITY AVE
Pace Project No.: 40126699

Dear Tom Gaieck:
Enclosed are the analytical results for sample(s) received by the laboratory on December 31, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: UNIVERSITY AVE
Pace Project No.: 40126699

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: UNIVERSITY AVE
Pace Project No.: 40126699

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40126699001	**CS-9**	Solid	12/29/15 09:25	12/31/15 09:00
40126699002	**CS-10**	Solid	12/29/15 09:40	12/31/15 09:00
40126699003	**CS-11**	Solid	12/29/15 09:50	12/31/15 09:00
40126699004	**MEOH BLANK**	Solid	12/29/15 00:00	12/31/15 09:00

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SAMPLE ANALYTE COUNT

Project: UNIVERSITY AVE
Pace Project No.: 40126699

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40126699001	**CS-9**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40126699002	**CS-10**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40126699003	**CS-11**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40126699004	**MEOH BLANK**	EPA 8260	SMT	64	PASI-G

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SUMMARY OF DETECTION

Project: UNIVERSITY AVE
Pace Project No.: 40126699

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40126699001	**CS-9**					
ASTM D2974-87	Percent Moisture	7.3	%	0.10	01/04/16 14:46	
40126699002	**CS-10**					
ASTM D2974-87	Percent Moisture	6.3	%	0.10	01/04/16 14:46	
40126699003	**CS-11**					
ASTM D2974-87	Percent Moisture	9.5	%	0.10	01/04/16 14:46	

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ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40126699

Sample: CS-9 **Lab ID: 40126699001** Collected: 12/29/15 09:25 Received: 12/31/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/05/16 07:30	01/05/16 22:21	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/05/16 07:30	01/05/16 22:21	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/05/16 07:30	01/05/16 22:21	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/05/16 07:30	01/05/16 22:21	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/05/16 07:30	01/05/16 22:21	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40126699

Sample: CS-9 **Lab ID: 40126699001** Collected: 12/29/15 09:25 Received: 12/31/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/05/16 07:30	01/05/16 22:21	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/05/16 07:30	01/05/16 22:21	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:21	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	49-157		1	01/05/16 07:30	01/05/16 22:21	1868-53-7	
Toluene-d8 (S)	109	%	61-148		1	01/05/16 07:30	01/05/16 22:21	2037-26-5	
4-Bromofluorobenzene (S)	104	%	53-134		1	01/05/16 07:30	01/05/16 22:21	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.3**	%	0.10	0.10	1		01/04/16 14:46		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40126699

Sample: CS-10 **Lab ID: 40126699002** Collected: 12/29/15 09:40 Received: 12/31/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/05/16 07:30	01/05/16 22:43	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/05/16 07:30	01/05/16 22:43	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/05/16 07:30	01/05/16 22:43	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/05/16 07:30	01/05/16 22:43	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/05/16 07:30	01/05/16 22:43	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40126699

Sample: CS-10 **Lab ID: 40126699002** Collected: 12/29/15 09:40 Received: 12/31/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/05/16 07:30	01/05/16 22:43	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/05/16 07:30	01/05/16 22:43	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 22:43	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	49-157		1	01/05/16 07:30	01/05/16 22:43	1868-53-7	
Toluene-d8 (S)	108	%	61-148		1	01/05/16 07:30	01/05/16 22:43	2037-26-5	
4-Bromofluorobenzene (S)	103	%	53-134		1	01/05/16 07:30	01/05/16 22:43	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.3**	%	0.10	0.10	1		01/04/16 14:46		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40126699

Sample: CS-11 **Lab ID: 40126699003** Collected: 12/29/15 09:50 Received: 12/31/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/05/16 07:30	01/05/16 23:06	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/05/16 07:30	01/05/16 23:06	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/05/16 07:30	01/05/16 23:06	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/05/16 07:30	01/05/16 23:06	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/05/16 07:30	01/05/16 23:06	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40126699

Sample: CS-11 **Lab ID: 40126699003** Collected: 12/29/15 09:50 Received: 12/31/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/05/16 07:30	01/05/16 23:06	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/05/16 07:30	01/05/16 23:06	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/05/16 23:06	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	49-157		1	01/05/16 07:30	01/05/16 23:06	1868-53-7	
Toluene-d8 (S)	107	%	61-148		1	01/05/16 07:30	01/05/16 23:06	2037-26-5	
4-Bromofluorobenzene (S)	103	%	53-134		1	01/05/16 07:30	01/05/16 23:06	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.5**	%	0.10	0.10	1		01/04/16 14:46		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40126699

Sample: MEOH BLANK **Lab ID: 40126699004** Collected: 12/29/15 00:00 Received: 12/31/15 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/05/16 07:30	01/06/16 10:52	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/05/16 07:30	01/06/16 10:52	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/05/16 07:30	01/06/16 10:52	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/05/16 07:30	01/06/16 10:52	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/05/16 07:30	01/06/16 10:52	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVE
Pace Project No.: 40126699

Sample: MEOH BLANK **Lab ID: 40126699004** Collected: 12/29/15 00:00 Received: 12/31/15 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/05/16 07:30	01/06/16 10:52	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/05/16 07:30	01/06/16 10:52	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/05/16 07:30	01/06/16 10:52	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	49-157		1	01/05/16 07:30	01/06/16 10:52	1868-53-7	
Toluene-d8 (S)	102	%	61-148		1	01/05/16 07:30	01/06/16 10:52	2037-26-5	
4-Bromofluorobenzene (S)	100	%	53-134		1	01/05/16 07:30	01/06/16 10:52	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVE
Pace Project No.: 40126699

QC Batch: MSV/31794 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40126699001, 40126699002, 40126699003, 40126699004

METHOD BLANK: 1280513 Matrix: Solid
Associated Lab Samples: 40126699001, 40126699002, 40126699003, 40126699004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	01/05/16 16:40	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	01/05/16 16:40	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	01/05/16 16:40	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	01/05/16 16:40	
1,1-Dichloroethane	ug/kg	<17.6	50.0	01/05/16 16:40	
1,1-Dichloroethene	ug/kg	<17.6	50.0	01/05/16 16:40	
1,1-Dichloropropene	ug/kg	<14.0	50.0	01/05/16 16:40	
1,2,3-Trichlorobenzene	ug/kg	38.7J	50.0	01/05/16 16:40	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	01/05/16 16:40	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	01/05/16 16:40	
1,2,4-Trimethylbenzene	ug/kg	13.1J	50.0	01/05/16 16:40	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	01/05/16 16:40	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	01/05/16 16:40	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	01/05/16 16:40	
1,2-Dichloroethane	ug/kg	<15.0	50.0	01/05/16 16:40	
1,2-Dichloropropane	ug/kg	<16.8	50.0	01/05/16 16:40	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	01/05/16 16:40	
1,3-Dichlorobenzene	ug/kg	13.5J	50.0	01/05/16 16:40	
1,3-Dichloropropane	ug/kg	<12.0	50.0	01/05/16 16:40	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	01/05/16 16:40	
2,2-Dichloropropane	ug/kg	<12.6	50.0	01/05/16 16:40	
2-Chlorotoluene	ug/kg	<15.8	50.0	01/05/16 16:40	
4-Chlorotoluene	ug/kg	<13.0	50.0	01/05/16 16:40	
Benzene	ug/kg	<9.2	20.0	01/05/16 16:40	
Bromobenzene	ug/kg	<20.6	50.0	01/05/16 16:40	
Bromochloromethane	ug/kg	<21.4	50.0	01/05/16 16:40	
Bromodichloromethane	ug/kg	<9.8	50.0	01/05/16 16:40	
Bromoform	ug/kg	<19.8	50.0	01/05/16 16:40	
Bromomethane	ug/kg	<69.9	250	01/05/16 16:40	
Carbon tetrachloride	ug/kg	<12.1	50.0	01/05/16 16:40	
Chlorobenzene	ug/kg	<14.8	50.0	01/05/16 16:40	
Chloroethane	ug/kg	<67.0	250	01/05/16 16:40	
Chloroform	ug/kg	<46.4	250	01/05/16 16:40	
Chloromethane	ug/kg	<20.4	50.0	01/05/16 16:40	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	01/05/16 16:40	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	01/05/16 16:40	
Dibromochloromethane	ug/kg	<17.9	50.0	01/05/16 16:40	
Dibromomethane	ug/kg	<19.3	50.0	01/05/16 16:40	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	01/05/16 16:40	
Diisopropyl ether	ug/kg	<17.7	50.0	01/05/16 16:40	
Ethylbenzene	ug/kg	<12.4	50.0	01/05/16 16:40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVE
Pace Project No.: 40126699

METHOD BLANK: 1280513 Matrix: Solid
Associated Lab Samples: 40126699001, 40126699002, 40126699003, 40126699004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	01/05/16 16:40	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	01/05/16 16:40	
m&p-Xylene	ug/kg	<34.4	100	01/05/16 16:40	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	01/05/16 16:40	
Methylene Chloride	ug/kg	<16.2	50.0	01/05/16 16:40	
n-Butylbenzene	ug/kg	25.6J	50.0	01/05/16 16:40	
n-Propylbenzene	ug/kg	12.0J	50.0	01/05/16 16:40	
Naphthalene	ug/kg	<40.0	250	01/05/16 16:40	
o-Xylene	ug/kg	<14.0	50.0	01/05/16 16:40	
p-Isopropyltoluene	ug/kg	23.0J	50.0	01/05/16 16:40	
sec-Butylbenzene	ug/kg	22.8J	50.0	01/05/16 16:40	
Styrene	ug/kg	<9.0	50.0	01/05/16 16:40	
tert-Butylbenzene	ug/kg	17.7J	50.0	01/05/16 16:40	
Tetrachloroethene	ug/kg	<12.9	50.0	01/05/16 16:40	
Toluene	ug/kg	<11.2	50.0	01/05/16 16:40	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	01/05/16 16:40	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	01/05/16 16:40	
Trichloroethene	ug/kg	<23.6	50.0	01/05/16 16:40	
Trichlorofluoromethane	ug/kg	<24.7	50.0	01/05/16 16:40	
Vinyl chloride	ug/kg	<21.1	50.0	01/05/16 16:40	
4-Bromofluorobenzene (S)	%	99	53-134	01/05/16 16:40	
Dibromofluoromethane (S)	%	99	49-157	01/05/16 16:40	
Toluene-d8 (S)	%	106	61-148	01/05/16 16:40	

LABORATORY CONTROL SAMPLE: 1280514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2490	99	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2630	105	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2540	102	70-130	
1,1-Dichloroethane	ug/kg	2500	2460	99	70-130	
1,1-Dichloroethene	ug/kg	2500	2280	91	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	2480	99	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2420	97	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2550	102	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2650	106	70-130	
1,2-Dichloroethane	ug/kg	2500	2620	105	70-134	
1,2-Dichloropropane	ug/kg	2500	2470	99	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2630	105	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2570	103	70-130	
Benzene	ug/kg	2500	2540	102	70-130	
Bromodichloromethane	ug/kg	2500	2390	96	70-130	
Bromoform	ug/kg	2500	2520	101	48-130	
Bromomethane	ug/kg	2500	2490	100	70-169	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVE
Pace Project No.: 40126699

LABORATORY CONTROL SAMPLE: 1280514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2520	101	67-130	
Chlorobenzene	ug/kg	2500	2670	107	70-130	
Chloroethane	ug/kg	2500	1910	76	70-191	
Chloroform	ug/kg	2500	2530	101	70-130	
Chloromethane	ug/kg	2500	2010	80	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2310	92	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2620	105	70-130	
Dibromochloromethane	ug/kg	2500	2540	102	65-130	
Dichlorodifluoromethane	ug/kg	2500	1740	70	12-150	
Ethylbenzene	ug/kg	2500	2500	100	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2470	99	70-130	
m&p-Xylene	ug/kg	5000	5040	101	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2790	111	70-130	
Methylene Chloride	ug/kg	2500	2490	100	70-131	
o-Xylene	ug/kg	2500	2370	95	70-130	
Styrene	ug/kg	2500	2520	101	70-130	
Tetrachloroethene	ug/kg	2500	2710	109	70-130	
Toluene	ug/kg	2500	2460	98	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2350	94	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2710	108	65-130	
Trichloroethene	ug/kg	2500	2450	98	70-130	
Trichlorofluoromethane	ug/kg	2500	2470	99	50-150	
Vinyl chloride	ug/kg	2500	2410	96	67-134	
4-Bromofluorobenzene (S)	%			102	53-134	
Dibromofluoromethane (S)	%			99	49-157	
Toluene-d8 (S)	%			105	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1280515 1280516

Parameter	Units	40126687001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	2630	2630	2530	2400	96	91	63-130	5	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	2630	2630	2680	2720	102	103	57-136	1	20	
1,1,2-Trichloroethane	ug/kg	<25.0	2630	2630	2710	2610	103	99	70-130	4	20	
1,1-Dichloroethane	ug/kg	<25.0	2630	2630	2510	2460	95	93	62-131	2	23	
1,1-Dichloroethene	ug/kg	<25.0	2630	2630	2290	2120	87	81	42-137	8	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	2630	2630	2650	2660	99	100	59-137	1	21	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	2630	2630	2560	2580	97	98	33-150	1	25	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	2630	2630	2640	2570	100	98	70-130	3	20	
1,2-Dichlorobenzene	ug/kg	<25.0	2630	2630	2840	2800	108	106	70-130	1	20	
1,2-Dichloroethane	ug/kg	<25.0	2630	2630	2670	2660	101	101	68-134	0	20	
1,2-Dichloropropane	ug/kg	<25.0	2630	2630	2560	2600	97	99	70-130	1	20	
1,3-Dichlorobenzene	ug/kg	<25.0	2630	2630	2810	2810	107	107	70-130	0	20	
1,4-Dichlorobenzene	ug/kg	<25.0	2630	2630	2770	2730	105	104	69-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVE
Pace Project No.: 40126699

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1280515 1280516

Parameter	Units	40126687001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	2630	2630	2550	2480	97	94	56-131	3	20	
Bromodichloromethane	ug/kg	<25.0	2630	2630	2480	2470	94	94	64-130	0	20	
Bromoform	ug/kg	<25.0	2630	2630	2630	2530	100	96	48-130	4	20	
Bromomethane	ug/kg	<69.9	2630	2630	2400	2300	91	87	18-169	4	23	
Carbon tetrachloride	ug/kg	<25.0	2630	2630	2570	2390	98	91	59-130	7	20	
Chlorobenzene	ug/kg	<25.0	2630	2630	2800	2710	106	103	70-130	3	20	
Chloroethane	ug/kg	<67.0	2630	2630	1970	1770	75	67	10-191	11	20	
Chloroform	ug/kg	<46.4	2630	2630	2660	2620	101	99	65-130	2	20	
Chloromethane	ug/kg	<25.0	2630	2630	1800	1740	68	66	36-132	3	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	2630	2630	2400	2330	91	88	59-136	3	24	
cis-1,3-Dichloropropene	ug/kg	<25.0	2630	2630	2680	2670	102	101	60-130	0	20	
Dibromochloromethane	ug/kg	<25.0	2630	2630	2720	2640	103	100	59-130	3	20	
Dichlorodifluoromethane	ug/kg	<25.0	2630	2630	1320	1240	50	47	10-150	6	27	
Ethylbenzene	ug/kg	<25.0	2630	2630	2640	2520	100	96	64-130	5	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	2630	2630	2650	2510	101	95	69-138	6	20	
m&p-Xylene	ug/kg	<50.0	5270	5270	5380	5120	102	97	61-130	5	20	
Methyl-tert-butyl ether	ug/kg	<25.0	2630	2630	2730	2690	103	102	52-134	1	20	
Methylene Chloride	ug/kg	<25.0	2630	2630	2510	2490	95	95	61-131	1	20	
o-Xylene	ug/kg	<25.0	2630	2630	2500	2400	95	91	63-130	4	20	
Styrene	ug/kg	<25.0	2630	2630	2670	2610	101	99	70-130	2	20	
Tetrachloroethene	ug/kg	<25.0	2630	2630	2900	2650	110	101	65-130	9	20	
Toluene	ug/kg	<25.0	2630	2630	2630	2530	100	96	65-130	4	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	2630	2630	2420	2320	92	88	55-130	4	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	2630	2630	2820	2730	107	104	54-130	3	20	
Trichloroethene	ug/kg	<25.0	2630	2630	2560	2490	97	94	70-130	3	20	
Trichlorofluoromethane	ug/kg	<25.0	2630	2630	2340	2230	89	85	42-150	5	24	
Vinyl chloride	ug/kg	<25.0	2630	2630	2200	2080	83	79	35-134	6	20	
4-Bromofluorobenzene (S)	%						99	95	53-134			
Dibromofluoromethane (S)	%						94	91	49-157			
Toluene-d8 (S)	%						101	100	61-148			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVE
Pace Project No.: 40126699

QC Batch: PMST/12298 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40126699001, 40126699002, 40126699003

SAMPLE DUPLICATE: 1280254

Parameter	Units	40126687004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.7	18.0	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: UNIVERSITY AVE
Pace Project No.: 40126699

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UNIVERSITY AVE
Pace Project No.: 40126699

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40126699001	**CS-9**	EPA 5035/5030B	MSV/31794	EPA 8260	MSV/31797
40126699002	**CS-10**	EPA 5035/5030B	MSV/31794	EPA 8260	MSV/31797
40126699003	**CS-11**	EPA 5035/5030B	MSV/31794	EPA 8260	MSV/31797
40126699004	**MEOH BLANK**	EPA 5035/5030B	MSV/31794	EPA 8260	MSV/31797
40126699001	**CS-9**	ASTM D2974-87	PMST/12298		
40126699002	**CS-10**	ASTM D2974-87	PMST/12298		
40126699003	**CS-11**	ASTM D2974-87	PMST/12298		

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

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

401261699

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

(Please Print Clearly)	
Company Name:	Ayres Associates
Branch/Location:	Madison
Project Contact:	Tom Gaicek
Phone:	608 443 1200
Project Number:	
Project Name:	University Ave
Project State:	Wisconsin
Sampled By (Print):	Thomas P Gaicek
Sampled By (Sign):	Thomas P Gaicek
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	Ayres Associates
Mail To Address:	5201 E. Terrace Drive Suite 200 Madison WI 53718
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	CS-9	12/29	9:25	S	N	F	VOC		1-40zpA 1-40mlF	
002	CS-10	12/29	9:40	S			X			
003	CS-11	12/29	9:50	S			X			
004	MeOH Blank						X			

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

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

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

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Thomas P Gaicek	12/30		
	12-31-15		
Walter	12/31/15 0900		

PACE Project No.: 401261699

Receipt Temp = R01 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal: Present / Not Present (Not Present circled) Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Project #: **WO# : 40126699**

40126699

Client Name: Ayres

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Walteo

Tracking #: 949517

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

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Ziplac

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R01 /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 12/31/15
Initials: MH

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. No project number MH 12/31/15
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr): MH 12/31/15	☒Yes (☒No) ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☒No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☒No ☐N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. No date or time on 4 oz poly for all samples MH 12/31/15
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☒No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	14.
Trip Blank Present:	☐Yes ☐No ☒N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: AMH for DM **Date:** 12/31/15

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 14, 2016

Tom Gaieck
Ayres & Associates, Inc
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Dear Tom Gaieck:
Enclosed are the analytical results for sample(s) received by the laboratory on January 08, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40126906001	**CS-12**	Solid	01/05/16 09:30	01/08/16 08:50
40126906002	**CS-13**	Solid	01/05/16 09:40	01/08/16 08:50
40126906003	**MEOH BLANK**	Solid	01/05/16 00:00	01/08/16 08:50
40126906004	**CS-14**	Solid	01/06/16 11:10	01/08/16 08:50
40126906005	**CS-15**	Solid	01/06/16 11:20	01/08/16 08:50
40126906006	**CS-16**	Solid	01/06/16 11:35	01/08/16 08:50
40126906007	**CS-17**	Solid	01/06/16 11:45	01/08/16 08:50

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SAMPLE ANALYTE COUNT

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40126906001	**CS-12**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40126906002	**CS-13**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40126906003	**MEOH BLANK**	EPA 8260	SMT	64	PASI-G
40126906004	**CS-14**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40126906005	**CS-15**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40126906006	**CS-16**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40126906007	**CS-17**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	BTH	1	PASI-G

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SUMMARY OF DETECTION

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40126906001	**CS-12**					
ASTM D2974-87	Percent Moisture	6.1	%	0.10	01/08/16 13:56	
40126906002	**CS-13**					
ASTM D2974-87	Percent Moisture	11.2	%	0.10	01/08/16 13:56	
40126906004	**CS-14**					
ASTM D2974-87	Percent Moisture	6.6	%	0.10	01/08/16 13:56	
40126906005	**CS-15**					
ASTM D2974-87	Percent Moisture	5.7	%	0.10	01/08/16 13:56	
40126906006	**CS-16**					
ASTM D2974-87	Percent Moisture	7.9	%	0.10	01/08/16 13:56	
40126906007	**CS-17**					
ASTM D2974-87	Percent Moisture	8.1	%	0.10	01/08/16 13:57	

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ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: CS-12 **Lab ID: 40126906001** Collected: 01/05/16 09:30 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/13/16 10:27	01/13/16 19:03	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/13/16 10:27	01/13/16 19:03	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/13/16 10:27	01/13/16 19:03	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/13/16 10:27	01/13/16 19:03	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/13/16 10:27	01/13/16 19:03	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: CS-12 **Lab ID: 40126906001** Collected: 01/05/16 09:30 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/13/16 10:27	01/13/16 19:03	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/13/16 10:27	01/13/16 19:03	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 19:03	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	115	%	49-157		1	01/13/16 10:27	01/13/16 19:03	1868-53-7	
Toluene-d8 (S)	109	%	61-148		1	01/13/16 10:27	01/13/16 19:03	2037-26-5	
4-Bromofluorobenzene (S)	100	%	53-134		1	01/13/16 10:27	01/13/16 19:03	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.1**	%	0.10	0.10	1		01/08/16 13:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: CS-13 **Lab ID: 40126906002** Collected: 01/05/16 09:40 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/12/16 09:00	01/13/16 10:09	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/12/16 09:00	01/13/16 10:09	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/12/16 09:00	01/13/16 10:09	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/12/16 09:00	01/13/16 10:09	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/12/16 09:00	01/13/16 10:09	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: CS-13 **Lab ID: 40126906002** Collected: 01/05/16 09:40 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/12/16 09:00	01/13/16 10:09	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/12/16 09:00	01/13/16 10:09	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/12/16 09:00	01/13/16 10:09	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	118	%	49-157		1	01/12/16 09:00	01/13/16 10:09	1868-53-7	
Toluene-d8 (S)	108	%	61-148		1	01/12/16 09:00	01/13/16 10:09	2037-26-5	
4-Bromofluorobenzene (S)	97	%	53-134		1	01/12/16 09:00	01/13/16 10:09	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.2**	%	0.10	0.10	1		01/08/16 13:56		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: MEOH BLANK **Lab ID: 40126906003** Collected: 01/05/16 00:00 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/13/16 10:27	01/13/16 17:10	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/13/16 10:27	01/13/16 17:10	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/13/16 10:27	01/13/16 17:10	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/13/16 10:27	01/13/16 17:10	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/13/16 10:27	01/13/16 17:10	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: MEOH BLANK **Lab ID: 40126906003** Collected: 01/05/16 00:00 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/13/16 10:27	01/13/16 17:10	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/13/16 10:27	01/13/16 17:10	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:10	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	118	%	49-157		1	01/13/16 10:27	01/13/16 17:10	1868-53-7	
Toluene-d8 (S)	105	%	61-148		1	01/13/16 10:27	01/13/16 17:10	2037-26-5	
4-Bromofluorobenzene (S)	103	%	53-134		1	01/13/16 10:27	01/13/16 17:10	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: CS-14 **Lab ID: 40126906004** Collected: 01/06/16 11:10 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/13/16 10:27	01/13/16 17:33	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/13/16 10:27	01/13/16 17:33	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/13/16 10:27	01/13/16 17:33	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/13/16 10:27	01/13/16 17:33	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/13/16 10:27	01/13/16 17:33	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: CS-14 **Lab ID: 40126906004** Collected: 01/06/16 11:10 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/13/16 10:27	01/13/16 17:33	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/13/16 10:27	01/13/16 17:33	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:33	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	114	%	49-157		1	01/13/16 10:27	01/13/16 17:33	1868-53-7	
Toluene-d8 (S)	110	%	61-148		1	01/13/16 10:27	01/13/16 17:33	2037-26-5	
4-Bromofluorobenzene (S)	102	%	53-134		1	01/13/16 10:27	01/13/16 17:33	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.6**	%	0.10	0.10	1		01/08/16 13:56		

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: CS-15 **Lab ID: 40126906005** Collected: 01/06/16 11:20 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/13/16 10:27	01/13/16 17:55	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/13/16 10:27	01/13/16 17:55	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/13/16 10:27	01/13/16 17:55	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/13/16 10:27	01/13/16 17:55	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/13/16 10:27	01/13/16 17:55	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	100-42-5	W

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ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: CS-15 **Lab ID: 40126906005** Collected: 01/06/16 11:20 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/13/16 10:27	01/13/16 17:55	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/13/16 10:27	01/13/16 17:55	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 17:55	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	115	%	49-157		1	01/13/16 10:27	01/13/16 17:55	1868-53-7	
Toluene-d8 (S)	112	%	61-148		1	01/13/16 10:27	01/13/16 17:55	2037-26-5	
4-Bromofluorobenzene (S)	104	%	53-134		1	01/13/16 10:27	01/13/16 17:55	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.7**	%	0.10	0.10	1		01/08/16 13:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: CS-16 **Lab ID: 40126906006** Collected: 01/06/16 11:35 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/13/16 10:27	01/13/16 18:18	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/13/16 10:27	01/13/16 18:18	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/13/16 10:27	01/13/16 18:18	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/13/16 10:27	01/13/16 18:18	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/13/16 10:27	01/13/16 18:18	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: CS-16 **Lab ID: 40126906006** Collected: 01/06/16 11:35 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/13/16 10:27	01/13/16 18:18	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/13/16 10:27	01/13/16 18:18	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/13/16 10:27	01/13/16 18:18	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	112	%	49-157		1	01/13/16 10:27	01/13/16 18:18	1868-53-7	
Toluene-d8 (S)	102	%	61-148		1	01/13/16 10:27	01/13/16 18:18	2037-26-5	
4-Bromofluorobenzene (S)	94	%	53-134		1	01/13/16 10:27	01/13/16 18:18	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.9**	%	0.10	0.10	1		01/08/16 13:56		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: CS-17 **Lab ID: 40126906007** Collected: 01/06/16 11:45 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	71-43-2	W
Bromobenzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	108-86-1	W
Bromochloromethane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	74-97-5	W
Bromodichloromethane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	75-27-4	W
Bromoform	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	75-25-2	W
Bromomethane	**<75.2**	ug/kg	269	75.2	1	01/13/16 10:27	01/13/16 18:41	74-83-9	W
n-Butylbenzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	104-51-8	W
sec-Butylbenzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	135-98-8	W
tert-Butylbenzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	98-06-6	W
Carbon tetrachloride	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	56-23-5	W
Chlorobenzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	108-90-7	W
Chloroethane	**<72.1**	ug/kg	269	72.1	1	01/13/16 10:27	01/13/16 18:41	75-00-3	W
Chloroform	**<49.9**	ug/kg	269	49.9	1	01/13/16 10:27	01/13/16 18:41	67-66-3	W
Chloromethane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	74-87-3	W
2-Chlorotoluene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	95-49-8	W
4-Chlorotoluene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	106-43-4	W
1,2-Dibromo-3-chloropropane	**<98.1**	ug/kg	269	98.1	1	01/13/16 10:27	01/13/16 18:41	96-12-8	W
Dibromochloromethane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	124-48-1	W
1,2-Dibromoethane (EDB)	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	106-93-4	W
Dibromomethane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	74-95-3	W
1,2-Dichlorobenzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	95-50-1	W
1,3-Dichlorobenzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	541-73-1	W
1,4-Dichlorobenzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	106-46-7	W
Dichlorodifluoromethane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	75-71-8	W
1,1-Dichloroethane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	75-34-3	W
1,2-Dichloroethane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	107-06-2	W
1,1-Dichloroethene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	75-35-4	W
cis-1,2-Dichloroethene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	156-59-2	W
trans-1,2-Dichloroethene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	156-60-5	W
1,2-Dichloropropane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	78-87-5	W
1,3-Dichloropropane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	142-28-9	W
2,2-Dichloropropane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	594-20-7	W
1,1-Dichloropropene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	563-58-6	W
cis-1,3-Dichloropropene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	10061-01-5	W
trans-1,3-Dichloropropene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	10061-02-6	W
Diisopropyl ether	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	108-20-3	W
Ethylbenzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	100-41-4	W
Hexachloro-1,3-butadiene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	87-68-3	W
Isopropylbenzene (Cumene)	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	98-82-8	W
p-Isopropyltoluene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	99-87-6	W
Methylene Chloride	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	75-09-2	W
Methyl-tert-butyl ether	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	1634-04-4	W
Naphthalene	**<43.1**	ug/kg	269	43.1	1	01/13/16 10:27	01/13/16 18:41	91-20-3	W
n-Propylbenzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	103-65-1	W
Styrene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Sample: CS-17 **Lab ID: 40126906007** Collected: 01/06/16 11:45 Received: 01/08/16 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	630-20-6	W
1,1,2,2-Tetrachloroethane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	79-34-5	W
Tetrachloroethene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	127-18-4	W
Toluene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	108-88-3	W
1,2,3-Trichlorobenzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	87-61-6	W
1,2,4-Trichlorobenzene	**<51.1**	ug/kg	269	51.1	1	01/13/16 10:27	01/13/16 18:41	120-82-1	W
1,1,1-Trichloroethane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	71-55-6	W
1,1,2-Trichloroethane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	79-00-5	W
Trichloroethene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	79-01-6	W
Trichlorofluoromethane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	75-69-4	W
1,2,3-Trichloropropane	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	96-18-4	W
1,2,4-Trimethylbenzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	95-63-6	W
1,3,5-Trimethylbenzene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	108-67-8	W
Vinyl chloride	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	75-01-4	W
m&p-Xylene	**<53.8**	ug/kg	129	53.8	1	01/13/16 10:27	01/13/16 18:41	179601-23-1	W
o-Xylene	**<26.9**	ug/kg	64.5	26.9	1	01/13/16 10:27	01/13/16 18:41	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	126	%	49-157		1	01/13/16 10:27	01/13/16 18:41	1868-53-7	
Toluene-d8 (S)	121	%	61-148		1	01/13/16 10:27	01/13/16 18:41	2037-26-5	
4-Bromofluorobenzene (S)	108	%	53-134		1	01/13/16 10:27	01/13/16 18:41	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.1**	%	0.10	0.10	1		01/08/16 13:57		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

QC Batch: MSV/31863
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40126906002

METHOD BLANK: 1282827
Matrix: Solid
Associated Lab Samples: 40126906002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	01/12/16 17:44	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	01/12/16 17:44	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	01/12/16 17:44	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	01/12/16 17:44	
1,1-Dichloroethane	ug/kg	<17.6	50.0	01/12/16 17:44	
1,1-Dichloroethene	ug/kg	<17.6	50.0	01/12/16 17:44	
1,1-Dichloropropene	ug/kg	<14.0	50.0	01/12/16 17:44	
1,2,3-Trichlorobenzene	ug/kg	20.2J	50.0	01/12/16 17:44	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	01/12/16 17:44	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	01/12/16 17:44	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	01/12/16 17:44	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	01/12/16 17:44	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	01/12/16 17:44	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	01/12/16 17:44	
1,2-Dichloroethane	ug/kg	<15.0	50.0	01/12/16 17:44	
1,2-Dichloropropane	ug/kg	<16.8	50.0	01/12/16 17:44	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	01/12/16 17:44	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	01/12/16 17:44	
1,3-Dichloropropane	ug/kg	<12.0	50.0	01/12/16 17:44	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	01/12/16 17:44	
2,2-Dichloropropane	ug/kg	<12.6	50.0	01/12/16 17:44	
2-Chlorotoluene	ug/kg	<15.8	50.0	01/12/16 17:44	
4-Chlorotoluene	ug/kg	<13.0	50.0	01/12/16 17:44	
Benzene	ug/kg	<9.2	20.0	01/12/16 17:44	
Bromobenzene	ug/kg	<20.6	50.0	01/12/16 17:44	
Bromochloromethane	ug/kg	<21.4	50.0	01/12/16 17:44	
Bromodichloromethane	ug/kg	<9.8	50.0	01/12/16 17:44	
Bromoform	ug/kg	<19.8	50.0	01/12/16 17:44	
Bromomethane	ug/kg	<69.9	250	01/12/16 17:44	
Carbon tetrachloride	ug/kg	<12.1	50.0	01/12/16 17:44	
Chlorobenzene	ug/kg	<14.8	50.0	01/12/16 17:44	
Chloroethane	ug/kg	<67.0	250	01/12/16 17:44	
Chloroform	ug/kg	<46.4	250	01/12/16 17:44	
Chloromethane	ug/kg	<20.4	50.0	01/12/16 17:44	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	01/12/16 17:44	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	01/12/16 17:44	
Dibromochloromethane	ug/kg	<17.9	50.0	01/12/16 17:44	
Dibromomethane	ug/kg	<19.3	50.0	01/12/16 17:44	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	01/12/16 17:44	
Diisopropyl ether	ug/kg	<17.7	50.0	01/12/16 17:44	
Ethylbenzene	ug/kg	<12.4	50.0	01/12/16 17:44	

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

METHOD BLANK: 1282827 Matrix: Solid
Associated Lab Samples: 40126906002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	01/12/16 17:44	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	01/12/16 17:44	
m&p-Xylene	ug/kg	<34.4	100	01/12/16 17:44	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	01/12/16 17:44	
Methylene Chloride	ug/kg	<16.2	50.0	01/12/16 17:44	
n-Butylbenzene	ug/kg	17.1J	50.0	01/12/16 17:44	
n-Propylbenzene	ug/kg	<11.6	50.0	01/12/16 17:44	
Naphthalene	ug/kg	<40.0	250	01/12/16 17:44	
o-Xylene	ug/kg	<14.0	50.0	01/12/16 17:44	
p-Isopropyltoluene	ug/kg	12.9J	50.0	01/12/16 17:44	
sec-Butylbenzene	ug/kg	15.2J	50.0	01/12/16 17:44	
Styrene	ug/kg	<9.0	50.0	01/12/16 17:44	
tert-Butylbenzene	ug/kg	9.8J	50.0	01/12/16 17:44	
Tetrachloroethene	ug/kg	<12.9	50.0	01/12/16 17:44	
Toluene	ug/kg	<11.2	50.0	01/12/16 17:44	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	01/12/16 17:44	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	01/12/16 17:44	
Trichloroethene	ug/kg	<23.6	50.0	01/12/16 17:44	
Trichlorofluoromethane	ug/kg	<24.7	50.0	01/12/16 17:44	
Vinyl chloride	ug/kg	<21.1	50.0	01/12/16 17:44	
4-Bromofluorobenzene (S)	%	95	53-134	01/12/16 17:44	
Dibromofluoromethane (S)	%	112	49-157	01/12/16 17:44	
Toluene-d8 (S)	%	108	61-148	01/12/16 17:44	

LABORATORY CONTROL SAMPLE: 1282828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2900	116	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2460	98	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2450	98	70-130	
1,1-Dichloroethane	ug/kg	2500	2800	112	70-130	
1,1-Dichloroethene	ug/kg	2500	2590	104	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	2330	93	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2240	90	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2390	96	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2560	102	70-130	
1,2-Dichloroethane	ug/kg	2500	3170	127	70-134	
1,2-Dichloropropane	ug/kg	2500	2640	105	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2550	102	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2480	99	70-130	
Benzene	ug/kg	2500	2880	115	70-130	
Bromodichloromethane	ug/kg	2500	2410	96	70-130	
Bromoform	ug/kg	2500	1840	73	48-130	
Bromomethane	ug/kg	2500	2980	119	70-169	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

LABORATORY CONTROL SAMPLE: 1282828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2700	108	67-130	
Chlorobenzene	ug/kg	2500	2680	107	70-130	
Chloroethane	ug/kg	2500	2570	103	70-191	
Chloroform	ug/kg	2500	3050	122	70-130	
Chloromethane	ug/kg	2500	2130	85	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2750	110	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2550	102	70-130	
Dibromochloromethane	ug/kg	2500	2230	89	65-130	
Dichlorodifluoromethane	ug/kg	2500	1520	61	12-150	
Ethylbenzene	ug/kg	2500	2560	102	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2460	98	70-130	
m&p-Xylene	ug/kg	5000	5010	100	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2800	112	70-130	
Methylene Chloride	ug/kg	2500	3000	120	70-131	
o-Xylene	ug/kg	2500	2300	92	70-130	
Styrene	ug/kg	2500	2510	100	70-130	
Tetrachloroethene	ug/kg	2500	2490	99	70-130	
Toluene	ug/kg	2500	2530	101	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2750	110	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2440	98	65-130	
Trichloroethene	ug/kg	2500	2650	106	70-130	
Trichlorofluoromethane	ug/kg	2500	2820	113	50-150	
Vinyl chloride	ug/kg	2500	2710	108	67-134	
4-Bromofluorobenzene (S)	%			98	53-134	
Dibromofluoromethane (S)	%			114	49-157	
Toluene-d8 (S)	%			106	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1282829 1282830

Parameter	Units	40126957001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1340	1340	1280	1220	96	91	63-130	5	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1340	1340	1310	1370	98	102	57-136	4	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1340	1340	1320	1350	99	101	70-130	2	20	
1,1-Dichloroethane	ug/kg	<25.0	1340	1340	1430	1330	107	100	62-131	7	23	
1,1-Dichloroethene	ug/kg	<25.0	1340	1340	1080	1010	81	75	42-137	7	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1340	1340	1330	1260	99	94	59-137	5	21	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1340	1340	1130	1160	85	86	33-150	2	25	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1340	1340	1220	1290	91	96	70-130	5	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1340	1340	1470	1440	110	107	70-130	3	20	
1,2-Dichloroethane	ug/kg	<25.0	1340	1340	1580	1500	118	112	68-134	6	20	
1,2-Dichloropropane	ug/kg	<25.0	1340	1340	1340	1330	100	100	70-130	1	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1340	1340	1430	1380	107	103	70-130	3	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1340	1340	1400	1390	105	104	69-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1282829 1282830

Parameter	Units	40126957001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1340	1340	1440	1400	108	104	56-131	3	20	
Bromodichloromethane	ug/kg	<25.0	1340	1340	1210	1180	90	88	64-130	2	20	
Bromoform	ug/kg	<25.0	1340	1340	796	897	60	67	48-130	12	20	
Bromomethane	ug/kg	<69.9	1340	1340	1360	1270	102	95	18-169	7	23	
Carbon tetrachloride	ug/kg	<25.0	1340	1340	1180	1060	89	80	59-130	11	20	
Chlorobenzene	ug/kg	<25.0	1340	1340	1400	1380	105	103	70-130	1	20	
Chloroethane	ug/kg	<67.0	1340	1340	1170	1050	88	79	10-191	11	20	
Chloroform	ug/kg	<46.4	1340	1340	1550	1500	116	112	65-130	3	20	
Chloromethane	ug/kg	<25.0	1340	1340	809	750	60	56	36-132	8	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1340	1340	1350	1280	101	96	59-136	5	24	
cis-1,3-Dichloropropene	ug/kg	<25.0	1340	1340	1260	1250	95	93	60-130	1	20	
Dibromochloromethane	ug/kg	<25.0	1340	1340	1050	1110	78	83	59-130	6	20	
Dichlorodifluoromethane	ug/kg	<25.0	1340	1340	387	347	29	26	10-150	11	27	
Ethylbenzene	ug/kg	<25.0	1340	1340	1310	1280	98	96	64-130	3	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1340	1340	1260	1230	94	92	69-138	2	20	
m&p-Xylene	ug/kg	<50.0	2670	2670	2610	2560	98	96	61-130	2	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1340	1340	1360	1470	102	110	52-134	8	20	
Methylene Chloride	ug/kg	<25.0	1340	1340	1440	1330	108	100	61-131	8	20	
o-Xylene	ug/kg	<25.0	1340	1340	1230	1250	92	93	63-130	2	20	
Styrene	ug/kg	<25.0	1340	1340	1280	1310	96	98	70-130	2	20	
Tetrachloroethene	ug/kg	<25.0	1340	1340	1210	1170	90	87	65-130	3	20	
Toluene	ug/kg	<25.0	1340	1340	1310	1300	98	97	65-130	1	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1340	1340	1330	1250	99	94	55-130	6	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1340	1340	1230	1270	92	95	54-130	3	20	
Trichloroethene	ug/kg	<25.0	1340	1340	1300	1240	97	93	70-130	4	20	
Trichlorofluoromethane	ug/kg	<25.0	1340	1340	1150	1010	86	76	42-150	13	24	
Vinyl chloride	ug/kg	<25.0	1340	1340	995	915	74	68	35-134	8	20	
4-Bromofluorobenzene (S)	%						112	112	53-134			
Dibromofluoromethane (S)	%						128	120	49-157			
Toluene-d8 (S)	%						120	121	61-148			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

QC Batch: MSV/31878 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40126906001, 40126906003, 40126906004, 40126906005, 40126906006, 40126906007

METHOD BLANK: 1283215 Matrix: Solid
Associated Lab Samples: 40126906001, 40126906003, 40126906004, 40126906005, 40126906006, 40126906007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	01/13/16 13:46	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	01/13/16 13:46	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	01/13/16 13:46	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	01/13/16 13:46	
1,1-Dichloroethane	ug/kg	<17.6	50.0	01/13/16 13:46	
1,1-Dichloroethene	ug/kg	<17.6	50.0	01/13/16 13:46	
1,1-Dichloropropene	ug/kg	<14.0	50.0	01/13/16 13:46	
1,2,3-Trichlorobenzene	ug/kg	36.2J	50.0	01/13/16 13:46	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	01/13/16 13:46	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	01/13/16 13:46	
1,2,4-Trimethylbenzene	ug/kg	16.0J	50.0	01/13/16 13:46	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	01/13/16 13:46	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	01/13/16 13:46	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	01/13/16 13:46	
1,2-Dichloroethane	ug/kg	<15.0	50.0	01/13/16 13:46	
1,2-Dichloropropane	ug/kg	<16.8	50.0	01/13/16 13:46	
1,3,5-Trimethylbenzene	ug/kg	18.0J	50.0	01/13/16 13:46	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	01/13/16 13:46	
1,3-Dichloropropane	ug/kg	<12.0	50.0	01/13/16 13:46	
1,4-Dichlorobenzene	ug/kg	16.4J	50.0	01/13/16 13:46	
2,2-Dichloropropane	ug/kg	<12.6	50.0	01/13/16 13:46	
2-Chlorotoluene	ug/kg	<15.8	50.0	01/13/16 13:46	
4-Chlorotoluene	ug/kg	<13.0	50.0	01/13/16 13:46	
Benzene	ug/kg	<9.2	20.0	01/13/16 13:46	
Bromobenzene	ug/kg	<20.6	50.0	01/13/16 13:46	
Bromochloromethane	ug/kg	<21.4	50.0	01/13/16 13:46	
Bromodichloromethane	ug/kg	<9.8	50.0	01/13/16 13:46	
Bromoform	ug/kg	<19.8	50.0	01/13/16 13:46	
Bromomethane	ug/kg	<69.9	250	01/13/16 13:46	
Carbon tetrachloride	ug/kg	<12.1	50.0	01/13/16 13:46	
Chlorobenzene	ug/kg	<14.8	50.0	01/13/16 13:46	
Chloroethane	ug/kg	<67.0	250	01/13/16 13:46	
Chloroform	ug/kg	<46.4	250	01/13/16 13:46	
Chloromethane	ug/kg	<20.4	50.0	01/13/16 13:46	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	01/13/16 13:46	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	01/13/16 13:46	
Dibromochloromethane	ug/kg	<17.9	50.0	01/13/16 13:46	
Dibromomethane	ug/kg	<19.3	50.0	01/13/16 13:46	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	01/13/16 13:46	
Diisopropyl ether	ug/kg	<17.7	50.0	01/13/16 13:46	
Ethylbenzene	ug/kg	<12.4	50.0	01/13/16 13:46	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

METHOD BLANK: 1283215 Matrix: Solid
Associated Lab Samples: 40126906001, 40126906003, 40126906004, 40126906005, 40126906006, 40126906007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	01/13/16 13:46	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	01/13/16 13:46	
m&p-Xylene	ug/kg	<34.4	100	01/13/16 13:46	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	01/13/16 13:46	
Methylene Chloride	ug/kg	<16.2	50.0	01/13/16 13:46	
n-Butylbenzene	ug/kg	19.7J	50.0	01/13/16 13:46	
n-Propylbenzene	ug/kg	<11.6	50.0	01/13/16 13:46	
Naphthalene	ug/kg	<40.0	250	01/13/16 13:46	
o-Xylene	ug/kg	<14.0	50.0	01/13/16 13:46	
p-Isopropyltoluene	ug/kg	17.6J	50.0	01/13/16 13:46	
sec-Butylbenzene	ug/kg	18.9J	50.0	01/13/16 13:46	
Styrene	ug/kg	<9.0	50.0	01/13/16 13:46	
tert-Butylbenzene	ug/kg	<9.5	50.0	01/13/16 13:46	
Tetrachloroethene	ug/kg	<12.9	50.0	01/13/16 13:46	
Toluene	ug/kg	<11.2	50.0	01/13/16 13:46	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	01/13/16 13:46	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	01/13/16 13:46	
Trichloroethene	ug/kg	<23.6	50.0	01/13/16 13:46	
Trichlorofluoromethane	ug/kg	<24.7	50.0	01/13/16 13:46	
Vinyl chloride	ug/kg	<21.1	50.0	01/13/16 13:46	
4-Bromofluorobenzene (S)	%	96	53-134	01/13/16 13:46	
Dibromofluoromethane (S)	%	106	49-157	01/13/16 13:46	
Toluene-d8 (S)	%	104	61-148	01/13/16 13:46	

LABORATORY CONTROL SAMPLE: 1283216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2990	120	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2670	107	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2500	100	70-130	
1,1-Dichloroethane	ug/kg	2500	2990	120	70-130	
1,1-Dichloroethene	ug/kg	2500	2730	109	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	2320	93	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2280	91	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2370	95	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2670	107	70-130	
1,2-Dichloroethane	ug/kg	2500	3250	130	70-134	
1,2-Dichloropropane	ug/kg	2500	2700	108	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2590	103	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2630	105	70-130	
Benzene	ug/kg	2500	3000	120	70-130	
Bromodichloromethane	ug/kg	2500	2450	98	70-130	
Bromoform	ug/kg	2500	1820	73	48-130	
Bromomethane	ug/kg	2500	3360	134	70-169	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

LABORATORY CONTROL SAMPLE: 1283216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2820	113	67-130	
Chlorobenzene	ug/kg	2500	2680	107	70-130	
Chloroethane	ug/kg	2500	3040	121	70-191	
Chloroform	ug/kg	2500	3180	127	70-130	
Chloromethane	ug/kg	2500	2640	106	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2830	113	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2680	107	70-130	
Dibromochloromethane	ug/kg	2500	2220	89	65-130	
Dichlorodifluoromethane	ug/kg	2500	2430	97	12-150	
Ethylbenzene	ug/kg	2500	2560	102	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2500	100	70-130	
m&p-Xylene	ug/kg	5000	5060	101	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2920	117	70-130	
Methylene Chloride	ug/kg	2500	3030	121	70-131	
o-Xylene	ug/kg	2500	2330	93	70-130	
Styrene	ug/kg	2500	2540	102	70-130	
Tetrachloroethene	ug/kg	2500	2450	98	70-130	
Toluene	ug/kg	2500	2540	102	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2880	115	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2530	101	65-130	
Trichloroethene	ug/kg	2500	2730	109	70-130	
Trichlorofluoromethane	ug/kg	2500	3170	127	50-150	
Vinyl chloride	ug/kg	2500	2920	117	67-134	
4-Bromofluorobenzene (S)	%			99	53-134	
Dibromofluoromethane (S)	%			112	49-157	
Toluene-d8 (S)	%			104	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1283217 1283218

Parameter	Units	10335193001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	ND	1890	1890	2140	2080	113	110	63-130	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1890	1890	116	<26.5	6	0	57-136		20	M1
1,1,2-Trichloroethane	ug/kg	ND	1890	1890	449	483	24	26	70-130	7	20	M1
1,1-Dichloroethane	ug/kg	ND	1890	1890	2120	2080	112	110	62-131	2	23	
1,1-Dichloroethene	ug/kg	ND	1890	1890	3310	3060	175	162	42-137	8	20	M1
1,2,4-Trichlorobenzene	ug/kg	ND	1890	1890	2020	1870	102	94	59-137	8	21	
1,2-Dibromo-3-chloropropane	ug/kg	ND	1890	1890	<138	<138	0	0	33-150		25	M1
1,2-Dibromoethane (EDB)	ug/kg	ND	1890	1890	1670	1730	88	91	70-130	3	20	
1,2-Dichlorobenzene	ug/kg	ND	1890	1890	2130	2080	111	108	70-130	2	20	
1,2-Dichloroethane	ug/kg	ND	1890	1890	2420	2280	128	121	68-134	6	20	
1,2-Dichloropropane	ug/kg	ND	1890	1890	2010	2000	106	106	70-130	0	20	
1,3-Dichlorobenzene	ug/kg	ND	1890	1890	2140	2030	111	105	70-130	6	20	
1,4-Dichlorobenzene	ug/kg	ND	1890	1890	2050	2040	106	106	69-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1283217 1283218

Parameter	Units	10335193001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	1890	1890	2260	2110	120	112	56-131	7	20	
Bromodichloromethane	ug/kg	ND	1890	1890	1690	1650	89	87	64-130	3	20	
Bromoform	ug/kg	ND	1890	1890	1130	1180	60	62	48-130	5	20	
Bromomethane	ug/kg	ND	1890	1890	1860	1840	98	98	18-169	1	23	
Carbon tetrachloride	ug/kg	ND	1890	1890	2000	1870	106	99	59-130	7	20	
Chlorobenzene	ug/kg	ND	1890	1890	2090	1920	110	102	70-130	8	20	
Chloroethane	ug/kg	ND	1890	1890	2270	2160	120	114	10-191	5	20	
Chloroform	ug/kg	ND	1890	1890	2360	2250	125	119	65-130	5	20	
Chloromethane	ug/kg	ND	1890	1890	1720	1750	91	92	36-132	2	20	
cis-1,2-Dichloroethene	ug/kg	ND	1890	1890	2110	1950	111	103	59-136	8	24	
cis-1,3-Dichloropropene	ug/kg	ND	1890	1890	1840	1830	97	97	60-130	0	20	
Dibromochloromethane	ug/kg	ND	1890	1890	1540	1510	81	80	59-130	2	20	
Dichlorodifluoromethane	ug/kg	ND	1890	1890	1190	1060	63	56	10-150	12	27	
Ethylbenzene	ug/kg	ND	1890	1890	1960	1850	104	98	64-130	6	20	
Isopropylbenzene (Cumene)	ug/kg	ND	1890	1890	1910	1840	100	96	69-138	4	20	
m&p-Xylene	ug/kg	ND	3780	3780	3920	3700	103	97	61-130	6	20	
Methyl-tert-butyl ether	ug/kg	ND	1890	1890	2210	2210	117	117	52-134	0	20	
Methylene Chloride	ug/kg	ND	1890	1890	2170	2040	115	108	61-131	6	20	
o-Xylene	ug/kg	ND	1890	1890	1830	1730	96	91	63-130	5	20	
Styrene	ug/kg	ND	1890	1890	1920	1840	102	97	70-130	5	20	
Tetrachloroethene	ug/kg	ND	1890	1890	1900	1830	101	97	65-130	4	20	
Toluene	ug/kg	ND	1890	1890	1970	1880	103	99	65-130	5	20	
trans-1,2-Dichloroethene	ug/kg	ND	1890	1890	2150	2080	114	110	55-130	3	20	
trans-1,3-Dichloropropene	ug/kg	ND	1890	1890	1820	1790	96	95	54-130	1	20	
Trichloroethene	ug/kg	ND	1890	1890	3610	3500	191	185	70-130	3	20	M1
Trichlorofluoromethane	ug/kg	ND	1890	1890	2410	1790	127	95	42-150	30	24	R1
Vinyl chloride	ug/kg	ND	1890	1890	2000	1930	106	102	35-134	4	20	
4-Bromofluorobenzene (S)	%						97	98	53-134			
Dibromofluoromethane (S)	%						0	0	49-157			1q,2q, 3q,P4, S0
Toluene-d8 (S)	%						105	103	61-148			

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

QC Batch: PMST/12307 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40126906001, 40126906002, 40126906004, 40126906005, 40126906006, 40126906007

SAMPLE DUPLICATE: 1282062

Parameter	Units	40126906001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.1	6.1	0	10	

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, Inc.
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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1q	Results are from sample aliquot taken from jar with head space and preserved with MeOH in the laboratory.
2q	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from analysis of MS that demonstrated similar interference).
3q	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from analysis of MSD that demonstrated similar interference).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P4	Sample field preservation does not meet EPA or method recommendations for this analysis.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UNIVERSITY AVENUE
Pace Project No.: 40126906

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40126906001	**CS-12**	EPA 5035/5030B	MSV/31878	EPA 8260	MSV/31884
40126906002	**CS-13**	EPA 5035/5030B	MSV/31863	EPA 8260	MSV/31869
40126906003	**MEOH BLANK**	EPA 5035/5030B	MSV/31878	EPA 8260	MSV/31884
40126906004	**CS-14**	EPA 5035/5030B	MSV/31878	EPA 8260	MSV/31884
40126906005	**CS-15**	EPA 5035/5030B	MSV/31878	EPA 8260	MSV/31884
40126906006	**CS-16**	EPA 5035/5030B	MSV/31878	EPA 8260	MSV/31884
40126906007	**CS-17**	EPA 5035/5030B	MSV/31878	EPA 8260	MSV/31884
40126906001	**CS-12**	ASTM D2974-87	PMST/12307		
40126906002	**CS-13**	ASTM D2974-87	PMST/12307		
40126906004	**CS-14**	ASTM D2974-87	PMST/12307		
40126906005	**CS-15**	ASTM D2974-87	PMST/12307		
40126906006	**CS-16**	ASTM D2974-87	PMST/12307		
40126906007	**CS-17**	ASTM D2974-87	PMST/12307		

CHAIN OF CUSTODY RECORD

KF To Pace

PROJECT NO.	PROJECT NAME/CLIENT	NO. OF CON-TAINERS	Field Filtered: VOC	REMARKS
	University Avenue			40126906
SAMPLERS: (Signature)	Thomas T Gast			

SAMPLE NO.	DATE	TIME	OM	RA	SAMPLE LOCATION/ DESCRIPTION	NO. OF CON-TAINERS	VOC	REMARKS
001	1/5	9:30			CS-12	2	X	1-4ozp[A] 1-40mlv[F]
002	1/5	9:40			CS-13	2	X	↓ ↓
003					MeOH Blank	1	X	1-40mlv[F]
004	1/6	11:10			CS14	2	X	1-4ozp[A] 1-40mlv[F]
005	1/6	11:20			CS-15	2	X	↓ ↓
006	1/6	11:35			CS-16	2	X	
007	1/6	11:45			CS-17	2	X	

Ayres Project Contact:

Ayres Project Manager:

Invoice To:

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)
Thomas T Gast	1/8	Ed Ney		1-7-12 5:00 P.M.	
Watts	1/8/16 0850				
		Pace	1/8/16 0850		

AYRES ASSOCIATES
Ayres Associates Inc
Engineers/Architects/Scientists/Photogrammetrists
5201 E. Terrace Drive, Suite 200
Madison, WI 53718
(608)443-1200 Fax (608)443-1250

Shipped on ice: X yes ___ no

Received on ice: X yes ___ no

Temp. if **not** received on ice: _____

COMMENTS:

Sample Condition Upon Receipt

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

Project #: WO# : 40126906

Client Name: University Avenue

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Walco

Tracking #: 955519-1

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

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Ziplocks

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

Cooler Temperature Uncorr: ROI /Corr: ROI **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 1/8/16
Initials: BH

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☐Yes	☒No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☒N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☒No	☐N/A	11.
Sample Labels match COC:	☐Yes	☑No	☐N/A	12. no times/dates on any 40zp samples BH 1/8/16
-Includes date/time/ID/Analysis Matrix: S				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes	☒No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: RJ for DM **Date:** 1-8-16

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 21, 2016

Tom Gaieck
Ayres & Associates, Inc
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Dear Tom Gaieck:
Enclosed are the analytical results for sample(s) received by the laboratory on January 19, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40127233001	**CS-18**	Solid	01/15/16 09:40	01/19/16 08:40
40127233002	**CS-19**	Solid	01/15/16 10:30	01/19/16 08:40
40127233003	**CS-20**	Solid	01/15/16 10:45	01/19/16 08:40
40127233004	**MEOH BLANK**	Solid	01/15/16 00:00	01/19/16 08:40

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SAMPLE ANALYTE COUNT

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40127233001	**CS-18**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40127233002	**CS-19**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40127233003	**CS-20**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40127233004	**MEOH BLANK**	EPA 8260	SMT	64	PASI-G

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SUMMARY OF DETECTION

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40127233001	**CS-18**					
ASTM D2974-87	Percent Moisture	3.9	%	0.10	01/19/16 12:53	
40127233002	**CS-19**					
ASTM D2974-87	Percent Moisture	9.2	%	0.10	01/19/16 12:53	
40127233003	**CS-20**					
ASTM D2974-87	Percent Moisture	10.8	%	0.10	01/19/16 09:37	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Sample: CS-18 **Lab ID: 40127233001** Collected: 01/15/16 09:40 Received: 01/19/16 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/20/16 11:53	01/21/16 01:32	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/20/16 11:53	01/21/16 01:32	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/20/16 11:53	01/21/16 01:32	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/20/16 11:53	01/21/16 01:32	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/20/16 11:53	01/21/16 01:32	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Sample: CS-18 **Lab ID: 40127233001** Collected: 01/15/16 09:40 Received: 01/19/16 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/20/16 11:53	01/21/16 01:32	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/20/16 11:53	01/21/16 01:32	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:32	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	107	%	49-157		1	01/20/16 11:53	01/21/16 01:32	1868-53-7	
Toluene-d8 (S)	94	%	61-148		1	01/20/16 11:53	01/21/16 01:32	2037-26-5	
4-Bromofluorobenzene (S)	88	%	53-134		1	01/20/16 11:53	01/21/16 01:32	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.9**	%	0.10	0.10	1		01/19/16 12:53		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Sample: CS-19 **Lab ID: 40127233002** Collected: 01/15/16 10:30 Received: 01/19/16 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/20/16 11:53	01/21/16 01:55	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/20/16 11:53	01/21/16 01:55	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/20/16 11:53	01/21/16 01:55	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/20/16 11:53	01/21/16 01:55	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/20/16 11:53	01/21/16 01:55	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Sample: CS-19 **Lab ID: 40127233002** Collected: 01/15/16 10:30 Received: 01/19/16 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/20/16 11:53	01/21/16 01:55	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/20/16 11:53	01/21/16 01:55	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:55	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	49-157		1	01/20/16 11:53	01/21/16 01:55	1868-53-7	
Toluene-d8 (S)	93	%	61-148		1	01/20/16 11:53	01/21/16 01:55	2037-26-5	
4-Bromofluorobenzene (S)	86	%	53-134		1	01/20/16 11:53	01/21/16 01:55	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.2**	%	0.10	0.10	1		01/19/16 12:53		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Sample: CS-20 **Lab ID: 40127233003** Collected: 01/15/16 10:45 Received: 01/19/16 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/20/16 11:53	01/21/16 02:18	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/20/16 11:53	01/21/16 02:18	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/20/16 11:53	01/21/16 02:18	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/20/16 11:53	01/21/16 02:18	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/20/16 11:53	01/21/16 02:18	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Sample: CS-20 **Lab ID: 40127233003** Collected: 01/15/16 10:45 Received: 01/19/16 08:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/20/16 11:53	01/21/16 02:18	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/20/16 11:53	01/21/16 02:18	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 02:18	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	49-157		1	01/20/16 11:53	01/21/16 02:18	1868-53-7	
Toluene-d8 (S)	93	%	61-148		1	01/20/16 11:53	01/21/16 02:18	2037-26-5	
4-Bromofluorobenzene (S)	87	%	53-134		1	01/20/16 11:53	01/21/16 02:18	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.8**	%	0.10	0.10	1		01/19/16 09:37		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Sample: MEOH BLANK **Lab ID: 40127233004** Collected: 01/15/16 00:00 Received: 01/19/16 08:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/20/16 11:53	01/21/16 01:09	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/20/16 11:53	01/21/16 01:09	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/20/16 11:53	01/21/16 01:09	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/20/16 11:53	01/21/16 01:09	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/20/16 11:53	01/21/16 01:09	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Sample: MEOH BLANK **Lab ID: 40127233004** Collected: 01/15/16 00:00 Received: 01/19/16 08:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/20/16 11:53	01/21/16 01:09	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/20/16 11:53	01/21/16 01:09	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/20/16 11:53	01/21/16 01:09	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	49-157		1	01/20/16 11:53	01/21/16 01:09	1868-53-7	
Toluene-d8 (S)	94	%	61-148		1	01/20/16 11:53	01/21/16 01:09	2037-26-5	
4-Bromofluorobenzene (S)	92	%	53-134		1	01/20/16 11:53	01/21/16 01:09	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

QC Batch: MSV/31961 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40127233001, 40127233002, 40127233003, 40127233004

METHOD BLANK: 1285430 Matrix: Solid
Associated Lab Samples: 40127233001, 40127233002, 40127233003, 40127233004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	01/20/16 18:12	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	01/20/16 18:12	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	01/20/16 18:12	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	01/20/16 18:12	
1,1-Dichloroethane	ug/kg	<17.6	50.0	01/20/16 18:12	
1,1-Dichloroethene	ug/kg	<17.6	50.0	01/20/16 18:12	
1,1-Dichloropropene	ug/kg	<14.0	50.0	01/20/16 18:12	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	01/20/16 18:12	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	01/20/16 18:12	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	01/20/16 18:12	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	01/20/16 18:12	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	01/20/16 18:12	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	01/20/16 18:12	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	01/20/16 18:12	
1,2-Dichloroethane	ug/kg	<15.0	50.0	01/20/16 18:12	
1,2-Dichloropropane	ug/kg	<16.8	50.0	01/20/16 18:12	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	01/20/16 18:12	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	01/20/16 18:12	
1,3-Dichloropropane	ug/kg	<12.0	50.0	01/20/16 18:12	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	01/20/16 18:12	
2,2-Dichloropropane	ug/kg	<12.6	50.0	01/20/16 18:12	
2-Chlorotoluene	ug/kg	<15.8	50.0	01/20/16 18:12	
4-Chlorotoluene	ug/kg	<13.0	50.0	01/20/16 18:12	
Benzene	ug/kg	<9.2	20.0	01/20/16 18:12	
Bromobenzene	ug/kg	<20.6	50.0	01/20/16 18:12	
Bromochloromethane	ug/kg	<21.4	50.0	01/20/16 18:12	
Bromodichloromethane	ug/kg	<9.8	50.0	01/20/16 18:12	
Bromoform	ug/kg	<19.8	50.0	01/20/16 18:12	
Bromomethane	ug/kg	<69.9	250	01/20/16 18:12	
Carbon tetrachloride	ug/kg	<12.1	50.0	01/20/16 18:12	
Chlorobenzene	ug/kg	<14.8	50.0	01/20/16 18:12	
Chloroethane	ug/kg	<67.0	250	01/20/16 18:12	
Chloroform	ug/kg	<46.4	250	01/20/16 18:12	
Chloromethane	ug/kg	<20.4	50.0	01/20/16 18:12	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	01/20/16 18:12	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	01/20/16 18:12	
Dibromochloromethane	ug/kg	<17.9	50.0	01/20/16 18:12	
Dibromomethane	ug/kg	<19.3	50.0	01/20/16 18:12	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	01/20/16 18:12	
Diisopropyl ether	ug/kg	<17.7	50.0	01/20/16 18:12	
Ethylbenzene	ug/kg	<12.4	50.0	01/20/16 18:12	

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

METHOD BLANK: 1285430 Matrix: Solid
Associated Lab Samples: 40127233001, 40127233002, 40127233003, 40127233004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	01/20/16 18:12	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	01/20/16 18:12	
m&p-Xylene	ug/kg	<34.4	100	01/20/16 18:12	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	01/20/16 18:12	
Methylene Chloride	ug/kg	<16.2	50.0	01/20/16 18:12	
n-Butylbenzene	ug/kg	<10.5	50.0	01/20/16 18:12	
n-Propylbenzene	ug/kg	<11.6	50.0	01/20/16 18:12	
Naphthalene	ug/kg	<40.0	250	01/20/16 18:12	
o-Xylene	ug/kg	<14.0	50.0	01/20/16 18:12	
p-Isopropyltoluene	ug/kg	<12.0	50.0	01/20/16 18:12	
sec-Butylbenzene	ug/kg	<11.9	50.0	01/20/16 18:12	
Styrene	ug/kg	<9.0	50.0	01/20/16 18:12	
tert-Butylbenzene	ug/kg	<9.5	50.0	01/20/16 18:12	
Tetrachloroethene	ug/kg	<12.9	50.0	01/20/16 18:12	
Toluene	ug/kg	<11.2	50.0	01/20/16 18:12	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	01/20/16 18:12	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	01/20/16 18:12	
Trichloroethene	ug/kg	<23.6	50.0	01/20/16 18:12	
Trichlorofluoromethane	ug/kg	<24.7	50.0	01/20/16 18:12	
Vinyl chloride	ug/kg	<21.1	50.0	01/20/16 18:12	
4-Bromofluorobenzene (S)	%	91	53-134	01/20/16 18:12	
Dibromofluoromethane (S)	%	113	49-157	01/20/16 18:12	
Toluene-d8 (S)	%	99	61-148	01/20/16 18:12	

LABORATORY CONTROL SAMPLE: 1285431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2610	104	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2580	103	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2560	102	70-130	
1,1-Dichloroethane	ug/kg	2500	2810	112	70-130	
1,1-Dichloroethene	ug/kg	2500	2630	105	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	2550	102	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2130	85	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2650	106	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2540	102	70-130	
1,2-Dichloroethane	ug/kg	2500	2860	114	70-134	
1,2-Dichloropropane	ug/kg	2500	2560	102	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2520	101	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2510	100	70-130	
Benzene	ug/kg	2500	2610	104	70-130	
Bromodichloromethane	ug/kg	2500	2190	88	70-130	
Bromoform	ug/kg	2500	2030	81	48-130	
Bromomethane	ug/kg	2500	2620	105	70-169	

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

LABORATORY CONTROL SAMPLE: 1285431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2700	108	67-130	
Chlorobenzene	ug/kg	2500	2660	106	70-130	
Chloroethane	ug/kg	2500	2550	102	70-191	
Chloroform	ug/kg	2500	2580	103	70-130	
Chloromethane	ug/kg	2500	2060	82	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2720	109	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2440	98	70-130	
Dibromochloromethane	ug/kg	2500	2280	91	65-130	
Dichlorodifluoromethane	ug/kg	2500	1420	57	12-150	
Ethylbenzene	ug/kg	2500	2500	100	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2550	102	70-130	
m&p-Xylene	ug/kg	5000	5080	102	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2830	113	70-130	
Methylene Chloride	ug/kg	2500	2710	108	70-131	
o-Xylene	ug/kg	2500	2530	101	70-130	
Styrene	ug/kg	2500	2590	104	70-130	
Tetrachloroethene	ug/kg	2500	2210	88	70-130	
Toluene	ug/kg	2500	2450	98	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2690	107	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2100	84	65-130	
Trichloroethene	ug/kg	2500	2590	103	70-130	
Trichlorofluoromethane	ug/kg	2500	2300	92	50-150	
Vinyl chloride	ug/kg	2500	2280	91	67-134	
4-Bromofluorobenzene (S)	%			92	53-134	
Dibromofluoromethane (S)	%			119	49-157	
Toluene-d8 (S)	%			97	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1285432 1285433

Parameter	Units	40127233001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1300	1300	1200	1160	92	90	63-130	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1300	1300	1330	1370	102	105	57-136	3	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1300	1300	1360	1280	105	98	70-130	7	20	
1,1-Dichloroethane	ug/kg	<25.0	1300	1300	1410	1380	108	106	62-131	2	23	
1,1-Dichloroethene	ug/kg	<25.0	1300	1300	1080	1190	83	91	42-137	10	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1300	1300	1380	1420	106	109	59-137	3	21	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1300	1300	1210	1180	93	90	33-150	3	25	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1300	1300	1350	1330	104	102	70-130	2	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1300	1300	1340	1390	103	107	70-130	3	20	
1,2-Dichloroethane	ug/kg	<25.0	1300	1300	1470	1390	113	107	68-134	6	20	
1,2-Dichloropropane	ug/kg	<25.0	1300	1300	1320	1320	102	102	70-130	0	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1300	1300	1300	1340	100	103	70-130	3	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1300	1300	1340	1330	103	102	69-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1285432 1285433

Parameter	Units	40127233001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1300	1300	1320	1310	102	100	56-131	1	20	
Bromodichloromethane	ug/kg	<25.0	1300	1300	1160	1150	89	88	64-130	1	20	
Bromoform	ug/kg	<25.0	1300	1300	1070	1100	83	85	48-130	3	20	
Bromomethane	ug/kg	<69.9	1300	1300	1440	1520	111	117	18-169	5	23	
Carbon tetrachloride	ug/kg	<25.0	1300	1300	1170	1190	90	91	59-130	1	20	
Chlorobenzene	ug/kg	<25.0	1300	1300	1390	1330	107	102	70-130	4	20	
Chloroethane	ug/kg	<67.0	1300	1300	1230	1280	94	98	10-191	4	20	
Chloroform	ug/kg	<46.4	1300	1300	1320	1280	102	98	65-130	4	20	
Chloromethane	ug/kg	<25.0	1300	1300	1080	1130	83	87	36-132	5	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1300	1300	1400	1360	107	105	59-136	2	24	
cis-1,3-Dichloropropene	ug/kg	<25.0	1300	1300	1170	1180	90	91	60-130	1	20	
Dibromochloromethane	ug/kg	<25.0	1300	1300	1260	1240	97	95	59-130	1	20	
Dichlorodifluoromethane	ug/kg	<25.0	1300	1300	763	772	59	59	10-150	1	27	
Ethylbenzene	ug/kg	<25.0	1300	1300	1230	1230	95	95	64-130	0	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1300	1300	1230	1260	94	97	69-138	2	20	
m&p-Xylene	ug/kg	<50.0	2600	2600	2540	2560	98	99	61-130	1	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1300	1300	1470	1390	113	107	52-134	6	20	
Methylene Chloride	ug/kg	<25.0	1300	1300	1470	1360	113	104	61-131	8	20	
o-Xylene	ug/kg	<25.0	1300	1300	1280	1260	98	97	63-130	1	20	
Styrene	ug/kg	<25.0	1300	1300	1350	1330	103	102	70-130	1	20	
Tetrachloroethene	ug/kg	<25.0	1300	1300	1050	1100	81	84	65-130	4	20	
Toluene	ug/kg	<25.0	1300	1300	1260	1250	97	96	65-130	1	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1300	1300	1350	1360	104	105	55-130	1	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1300	1300	1120	1120	86	86	54-130	0	20	
Trichloroethene	ug/kg	<25.0	1300	1300	1240	1210	96	93	70-130	3	20	
Trichlorofluoromethane	ug/kg	<25.0	1300	1300	1010	1050	78	81	42-150	4	24	
Vinyl chloride	ug/kg	<25.0	1300	1300	1140	1110	88	86	35-134	2	20	
4-Bromofluorobenzene (S)	%						95	93	53-134			
Dibromofluoromethane (S)	%						114	111	49-157			
Toluene-d8 (S)	%						98	96	61-148			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

QC Batch: PMST/12336
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40127233003

SAMPLE DUPLICATE: 1284897

Parameter	Units	40127233003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.8	12.0	10	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

QC Batch: PMST/12337
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40127233001, 40127233002

SAMPLE DUPLICATE: 1284946

Parameter	Units	40127238003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.4	5.4	0	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Green Bay, WI 54302
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QUALIFIERS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UNIVERSITY AVENUE
Pace Project No.: 40127233

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40127233001	**CS-18**	EPA 5035/5030B	MSV/31961	EPA 8260	MSV/31962
40127233002	**CS-19**	EPA 5035/5030B	MSV/31961	EPA 8260	MSV/31962
40127233003	**CS-20**	EPA 5035/5030B	MSV/31961	EPA 8260	MSV/31962
40127233004	**MEOH BLANK**	EPA 5035/5030B	MSV/31961	EPA 8260	MSV/31962
40127233001	**CS-18**	ASTM D2974-87	PMST/12337		
40127233002	**CS-19**	ASTM D2974-87	PMST/12337		
40127233003	**CS-20**	ASTM D2974-87	PMST/12336		

REPORT OF LABORATORY ANALYSIS

40127233

CHAIN OF CUSTODY RECORD

To Pace

PROJECT NO.	PROJECT NAME/CLIENT	NO. OF CON-TAINERS	Field Filtered: VOC	REMARKS
	University Avenue			
SAMPLERS: (*Signature*) Thomas F Gaul				

SAMPLE NO.	DATE	TIME	OM	RA	SAMPLE LOCATION/ DESCRIPTION	NO. OF CON-TAINERS	VOC	REMARKS
001	1/15	9:40			CS-18	2	X	1-40zp A, 1-40mlv F
002	1/15	10:30			CS-19	2	X	
003	1/15	10:48			CS-20	2	X	
004					MeOH Blank	1	X	

Ayres Project Contact:

Ayres Project Manager:

Invoice To:

RELINQUISHED BY: *(Signature)*	DATE / TIME	RECEIVED BY: *(Signature)*	RELINQUISHED BY: *(Signature)*	DATE / TIME	RECEIVED BY: *(Signature)*
Thomas F Gaul	1/18	CASEY - WALCO		1-19-16 0840	1-19-16 0940 Pace

Shipped on ice: ____ yes ____ no

Received on ice: X yes ____ no

Temp. if **not** received on ice: _____

COMMENTS:

AYRES ASSOCIATES

Ayres Associates Inc
Engineers/Architects/Scientists/Photogrammetrists
5201 E. Terrace Drive, Suite 200
Madison, WI 53718
(608)443-1200 Fax (608)443-1250

Sample Condition Upon Receipt

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

Pace Analytical™

Project #: **WO# : 40127233**

40127233

Client Name: Ayres

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Walter

Tracking #: 963043

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

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncor: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 1-19-16 SCV
Initials:

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☐Yes	☑No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☐Yes	☑No	☐N/A	12. No collect date + time on all 402p. 1-19-16 SW
-Includes date/time/ID/Analysis Matrix: S				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes	☑No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	14.
Trip Blank Present:	☐Yes	☐No	☑N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: JJ for DM **Date:** 1-19-16

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

February 01, 2016

Tom Gaieck
Ayres & Associates, Inc
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Dear Tom Gaieck:
Enclosed are the analytical results for sample(s) received by the laboratory on January 26, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40127487001	**RS-14**	Solid	01/22/16 12:45	01/26/16 09:20
40127487002	**CS-21**	Solid	01/22/16 13:00	01/26/16 09:20
40127487003	**CS-22**	Solid	01/22/16 13:30	01/26/16 09:20
40127487004	**MEOH BLANK**	Solid	01/22/16 00:00	01/26/16 09:20

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40127487001	**RS-14**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40127487002	**CS-21**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40127487003	**CS-22**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40127487004	**MEOH BLANK**	EPA 8260	SMT	64	PASI-G

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40127487001	**RS-14**					
EPA 8260	Tetrachloroethene	85.0	ug/kg	69.8	01/27/16 14:46	
EPA 8260	Toluene	83.7	ug/kg	69.8	01/27/16 14:46	
ASTM D2974-87	Percent Moisture	14.0	%	0.10	01/29/16 16:29	
40127487002	**CS-21**					
ASTM D2974-87	Percent Moisture	7.0	%	0.10	01/29/16 16:29	
40127487003	**CS-22**					
EPA 8260	Tetrachloroethene	170	ug/kg	65.6	01/27/16 15:31	
ASTM D2974-87	Percent Moisture	8.5	%	0.10	01/29/16 16:29	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Sample: RS-14 **Lab ID: 40127487001** Collected: 01/22/16 12:45 Received: 01/26/16 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/27/16 08:00	01/27/16 14:46	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/27/16 08:00	01/27/16 14:46	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/27/16 08:00	01/27/16 14:46	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/27/16 08:00	01/27/16 14:46	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/27/16 08:00	01/27/16 14:46	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Sample: RS-14 **Lab ID: 40127487001** Collected: 01/22/16 12:45 Received: 01/26/16 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	79-34-5	W
Tetrachloroethene	**85.0**	ug/kg	69.8	29.1	1	01/27/16 08:00	01/27/16 14:46	127-18-4	
Toluene	**83.7**	ug/kg	69.8	29.1	1	01/27/16 08:00	01/27/16 14:46	108-88-3	
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/27/16 08:00	01/27/16 14:46	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/27/16 08:00	01/27/16 14:46	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:46	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	115	%	49-157		1	01/27/16 08:00	01/27/16 14:46	1868-53-7	
Toluene-d8 (S)	112	%	61-148		1	01/27/16 08:00	01/27/16 14:46	2037-26-5	
4-Bromofluorobenzene (S)	98	%	53-134		1	01/27/16 08:00	01/27/16 14:46	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.0**	%	0.10	0.10	1		01/29/16 16:29		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Sample: CS-21 **Lab ID: 40127487002** Collected: 01/22/16 13:00 Received: 01/26/16 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/27/16 08:00	01/27/16 15:08	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/27/16 08:00	01/27/16 15:08	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/27/16 08:00	01/27/16 15:08	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/27/16 08:00	01/27/16 15:08	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/27/16 08:00	01/27/16 15:08	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Sample: CS-21 **Lab ID: 40127487002** Collected: 01/22/16 13:00 Received: 01/26/16 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/27/16 08:00	01/27/16 15:08	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/27/16 08:00	01/27/16 15:08	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:08	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	118	%	49-157		1	01/27/16 08:00	01/27/16 15:08	1868-53-7	
Toluene-d8 (S)	115	%	61-148		1	01/27/16 08:00	01/27/16 15:08	2037-26-5	
4-Bromofluorobenzene (S)	104	%	53-134		1	01/27/16 08:00	01/27/16 15:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.0**	%	0.10	0.10	1		01/29/16 16:29		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Sample: CS-22 **Lab ID: 40127487003** Collected: 01/22/16 13:30 Received: 01/26/16 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/27/16 08:00	01/27/16 15:31	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/27/16 08:00	01/27/16 15:31	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/27/16 08:00	01/27/16 15:31	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/27/16 08:00	01/27/16 15:31	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/27/16 08:00	01/27/16 15:31	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Sample: CS-22 **Lab ID: 40127487003** Collected: 01/22/16 13:30 Received: 01/26/16 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	79-34-5	W
Tetrachloroethene	**170**	ug/kg	65.6	27.3	1	01/27/16 08:00	01/27/16 15:31	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/27/16 08:00	01/27/16 15:31	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/27/16 08:00	01/27/16 15:31	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 15:31	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	49-157		1	01/27/16 08:00	01/27/16 15:31	1868-53-7	
Toluene-d8 (S)	103	%	61-148		1	01/27/16 08:00	01/27/16 15:31	2037-26-5	
4-Bromofluorobenzene (S)	95	%	53-134		1	01/27/16 08:00	01/27/16 15:31	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.5**	%	0.10	0.10	1		01/29/16 16:29		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Sample: MEOH BLANK **Lab ID: 40127487004** Collected: 01/22/16 00:00 Received: 01/26/16 09:20 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	01/27/16 08:00	01/27/16 14:01	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	01/27/16 08:00	01/27/16 14:01	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	01/27/16 08:00	01/27/16 14:01	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	01/27/16 08:00	01/27/16 14:01	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	01/27/16 08:00	01/27/16 14:01	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Sample: MEOH BLANK **Lab ID: 40127487004** Collected: 01/22/16 00:00 Received: 01/26/16 09:20 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	01/27/16 08:00	01/27/16 14:01	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	01/27/16 08:00	01/27/16 14:01	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	01/27/16 08:00	01/27/16 14:01	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	49-157		1	01/27/16 08:00	01/27/16 14:01	1868-53-7	
Toluene-d8 (S)	99	%	61-148		1	01/27/16 08:00	01/27/16 14:01	2037-26-5	
4-Bromofluorobenzene (S)	91	%	53-134		1	01/27/16 08:00	01/27/16 14:01	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

QC Batch: MSV/32022 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40127487001, 40127487002, 40127487003, 40127487004

METHOD BLANK: 1288249 Matrix: Solid
Associated Lab Samples: 40127487001, 40127487002, 40127487003, 40127487004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	01/27/16 09:22	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	01/27/16 09:22	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	01/27/16 09:22	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	01/27/16 09:22	
1,1-Dichloroethane	ug/kg	<17.6	50.0	01/27/16 09:22	
1,1-Dichloroethene	ug/kg	<17.6	50.0	01/27/16 09:22	
1,1-Dichloropropene	ug/kg	<14.0	50.0	01/27/16 09:22	
1,2,3-Trichlorobenzene	ug/kg	27.2J	50.0	01/27/16 09:22	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	01/27/16 09:22	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	01/27/16 09:22	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	01/27/16 09:22	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	01/27/16 09:22	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	01/27/16 09:22	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	01/27/16 09:22	
1,2-Dichloroethane	ug/kg	<15.0	50.0	01/27/16 09:22	
1,2-Dichloropropane	ug/kg	<16.8	50.0	01/27/16 09:22	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	01/27/16 09:22	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	01/27/16 09:22	
1,3-Dichloropropane	ug/kg	<12.0	50.0	01/27/16 09:22	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	01/27/16 09:22	
2,2-Dichloropropane	ug/kg	<12.6	50.0	01/27/16 09:22	
2-Chlorotoluene	ug/kg	<15.8	50.0	01/27/16 09:22	
4-Chlorotoluene	ug/kg	<13.0	50.0	01/27/16 09:22	
Benzene	ug/kg	<9.2	20.0	01/27/16 09:22	
Bromobenzene	ug/kg	<20.6	50.0	01/27/16 09:22	
Bromochloromethane	ug/kg	<21.4	50.0	01/27/16 09:22	
Bromodichloromethane	ug/kg	<9.8	50.0	01/27/16 09:22	
Bromoform	ug/kg	<19.8	50.0	01/27/16 09:22	
Bromomethane	ug/kg	<69.9	250	01/27/16 09:22	
Carbon tetrachloride	ug/kg	<12.1	50.0	01/27/16 09:22	
Chlorobenzene	ug/kg	<14.8	50.0	01/27/16 09:22	
Chloroethane	ug/kg	<67.0	250	01/27/16 09:22	
Chloroform	ug/kg	<46.4	250	01/27/16 09:22	
Chloromethane	ug/kg	<20.4	50.0	01/27/16 09:22	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	01/27/16 09:22	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	01/27/16 09:22	
Dibromochloromethane	ug/kg	<17.9	50.0	01/27/16 09:22	
Dibromomethane	ug/kg	<19.3	50.0	01/27/16 09:22	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	01/27/16 09:22	
Diisopropyl ether	ug/kg	<17.7	50.0	01/27/16 09:22	
Ethylbenzene	ug/kg	<12.4	50.0	01/27/16 09:22	

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

METHOD BLANK: 1288249 Matrix: Solid
Associated Lab Samples: 40127487001, 40127487002, 40127487003, 40127487004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	01/27/16 09:22	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	01/27/16 09:22	
m&p-Xylene	ug/kg	<34.4	100	01/27/16 09:22	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	01/27/16 09:22	
Methylene Chloride	ug/kg	<16.2	50.0	01/27/16 09:22	
n-Butylbenzene	ug/kg	16.6J	50.0	01/27/16 09:22	
n-Propylbenzene	ug/kg	<11.6	50.0	01/27/16 09:22	
Naphthalene	ug/kg	<40.0	250	01/27/16 09:22	
o-Xylene	ug/kg	<14.0	50.0	01/27/16 09:22	
p-Isopropyltoluene	ug/kg	13.2J	50.0	01/27/16 09:22	
sec-Butylbenzene	ug/kg	16.1J	50.0	01/27/16 09:22	
Styrene	ug/kg	<9.0	50.0	01/27/16 09:22	
tert-Butylbenzene	ug/kg	<9.5	50.0	01/27/16 09:22	
Tetrachloroethene	ug/kg	<12.9	50.0	01/27/16 09:22	
Toluene	ug/kg	<11.2	50.0	01/27/16 09:22	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	01/27/16 09:22	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	01/27/16 09:22	
Trichloroethene	ug/kg	<23.6	50.0	01/27/16 09:22	
Trichlorofluoromethane	ug/kg	<24.7	50.0	01/27/16 09:22	
Vinyl chloride	ug/kg	<21.1	50.0	01/27/16 09:22	
4-Bromofluorobenzene (S)	%	91	53-134	01/27/16 09:22	
Dibromofluoromethane (S)	%	104	49-157	01/27/16 09:22	
Toluene-d8 (S)	%	105	61-148	01/27/16 09:22	

LABORATORY CONTROL SAMPLE: 1288250

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2470	99	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2400	96	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2400	96	70-130	
1,1-Dichloroethane	ug/kg	2500	2460	98	70-130	
1,1-Dichloroethene	ug/kg	2500	2390	96	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	2410	97	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2120	85	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2410	96	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2510	101	70-130	
1,2-Dichloroethane	ug/kg	2500	2660	106	70-134	
1,2-Dichloropropane	ug/kg	2500	2400	96	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2450	98	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2440	98	70-130	
Benzene	ug/kg	2500	2490	100	70-130	
Bromodichloromethane	ug/kg	2500	2180	87	70-130	
Bromoform	ug/kg	2500	2020	81	48-130	
Bromomethane	ug/kg	2500	2790	112	70-169	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

LABORATORY CONTROL SAMPLE: 1288250

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2350	94	67-130	
Chlorobenzene	ug/kg	2500	2530	101	70-130	
Chloroethane	ug/kg	2500	2570	103	70-191	
Chloroform	ug/kg	2500	2620	105	70-130	
Chloromethane	ug/kg	2500	2040	82	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2350	94	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2360	94	70-130	
Dibromochloromethane	ug/kg	2500	2200	88	65-130	
Dichlorodifluoromethane	ug/kg	2500	1750	70	12-150	
Ethylbenzene	ug/kg	2500	2380	95	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2390	96	70-130	
m&p-Xylene	ug/kg	5000	4750	95	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2670	107	70-130	
Methylene Chloride	ug/kg	2500	2590	104	70-131	
o-Xylene	ug/kg	2500	2250	90	70-130	
Styrene	ug/kg	2500	2350	94	70-130	
Tetrachloroethene	ug/kg	2500	2510	100	70-130	
Toluene	ug/kg	2500	2440	97	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2400	96	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2400	96	65-130	
Trichloroethene	ug/kg	2500	2400	96	70-130	
Trichlorofluoromethane	ug/kg	2500	2440	98	50-150	
Vinyl chloride	ug/kg	2500	2320	93	67-134	
4-Bromofluorobenzene (S)	%			96	53-134	
Dibromofluoromethane (S)	%			97	49-157	
Toluene-d8 (S)	%			99	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1288276 1288277

Parameter	Units	40127487002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1340	1340	1290	1220	96	91	63-130	6	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1340	1340	1280	1220	95	91	57-136	5	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1340	1340	1270	1240	94	92	70-130	2	20	
1,1-Dichloroethane	ug/kg	<25.0	1340	1340	1300	1340	96	100	62-131	3	23	
1,1-Dichloroethene	ug/kg	<25.0	1340	1340	1110	1090	83	81	42-137	2	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1340	1340	1500	1330	111	99	59-137	12	21	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1340	1340	1260	1090	94	81	33-150	15	25	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1340	1340	1200	1180	89	88	70-130	2	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1340	1340	1450	1430	108	106	70-130	2	20	
1,2-Dichloroethane	ug/kg	<25.0	1340	1340	1520	1500	113	112	68-134	1	20	
1,2-Dichloropropane	ug/kg	<25.0	1340	1340	1270	1250	95	93	70-130	2	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1340	1340	1410	1360	105	101	70-130	4	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1340	1340	1420	1320	105	98	69-130	7	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1288276 1288277

Parameter	Units	40127487002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1340	1340	1380	1330	103	99	56-131	4	20	
Bromodichloromethane	ug/kg	<25.0	1340	1340	1120	1170	83	87	64-130	5	20	
Bromoform	ug/kg	<25.0	1340	1340	966	819	72	61	48-130	16	20	
Bromomethane	ug/kg	<69.9	1340	1340	1660	1750	123	130	18-169	6	23	
Carbon tetrachloride	ug/kg	<25.0	1340	1340	1190	1150	89	86	59-130	3	20	
Chlorobenzene	ug/kg	<25.0	1340	1340	1380	1360	103	101	70-130	2	20	
Chloroethane	ug/kg	<67.0	1340	1340	1340	1360	100	101	10-191	1	20	
Chloroform	ug/kg	<46.4	1340	1340	1440	1420	107	106	65-130	1	20	
Chloromethane	ug/kg	<25.0	1340	1340	998	968	74	72	36-132	3	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1340	1340	1320	1270	98	95	59-136	4	24	
cis-1,3-Dichloropropene	ug/kg	<25.0	1340	1340	1230	1180	92	88	60-130	4	20	
Dibromochloromethane	ug/kg	<25.0	1340	1340	1120	1050	84	78	59-130	7	20	
Dichlorodifluoromethane	ug/kg	<25.0	1340	1340	702	651	52	48	10-150	8	27	
Ethylbenzene	ug/kg	<25.0	1340	1340	1280	1240	95	92	64-130	3	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1340	1340	1250	1190	93	89	69-138	5	20	
m&p-Xylene	ug/kg	<50.0	2690	2690	2520	2460	94	91	61-130	3	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1340	1340	1340	1370	100	102	52-134	2	20	
Methylene Chloride	ug/kg	<25.0	1340	1340	1400	1410	104	105	61-131	0	20	
o-Xylene	ug/kg	<25.0	1340	1340	1210	1140	90	85	63-130	6	20	
Styrene	ug/kg	<25.0	1340	1340	1270	1270	95	94	70-130	0	20	
Tetrachloroethene	ug/kg	<25.0	1340	1340	1310	1170	97	87	65-130	11	20	
Toluene	ug/kg	<25.0	1340	1340	1280	1230	95	91	65-130	4	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1340	1340	1330	1240	99	92	55-130	7	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1340	1340	1260	1170	94	87	54-130	8	20	
Trichloroethene	ug/kg	<25.0	1340	1340	1260	1230	94	92	70-130	2	20	
Trichlorofluoromethane	ug/kg	<25.0	1340	1340	1160	1230	86	92	42-150	6	24	
Vinyl chloride	ug/kg	<25.0	1340	1340	1200	1130	89	84	35-134	6	20	
4-Bromofluorobenzene (S)	%						105	107	53-134			
Dibromofluoromethane (S)	%						116	116	49-157			
Toluene-d8 (S)	%						114	115	61-148			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

QC Batch: PMST/12360 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40127487001, 40127487002, 40127487003

SAMPLE DUPLICATE: 1289701

Parameter	Units	40127496002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.6	15.2	3	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UNIVERSITY AVENUE
Pace Project No.: 40127487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40127487001	**RS-14**	EPA 5035/5030B	MSV/32022	EPA 8260	MSV/32025
40127487002	**CS-21**	EPA 5035/5030B	MSV/32022	EPA 8260	MSV/32025
40127487003	**CS-22**	EPA 5035/5030B	MSV/32022	EPA 8260	MSV/32025
40127487004	**MEOH BLANK**	EPA 5035/5030B	MSV/32022	EPA 8260	MSV/32025
40127487001	**RS-14**	ASTM D2974-87	PMST/12360		
40127487002	**CS-21**	ASTM D2974-87	PMST/12360		
40127487003	**CS-22**	ASTM D2974-87	PMST/12360		

REPORT OF LABORATORY ANALYSIS

40127487

CHAIN OF CUSTODY RECORD

KF To Pace

PROJECT NO.	PROJECT NAME/CLIENT
	University Avenue

SAMPLERS: (*Signature*) Thomas T Gail

SAMPLE NO.	DATE	TIME	OM	RA	SAMPLE LOCATION/ DESCRIPTION	NO. OF CON-TAINERS	Field Filtered: VOC								REMARKS
001	1/22	12:45			RS-14	2	X								1-40mlv F 1-4ozp A
002	1/22	1:00			CS-21	2	X								
003	1/22	1:30			CS-22	2	X								
					MeOH Blank	1	X								

Ayres Project Contact:

Ayres Project Manager:

Invoice To:

RELINQUISHED BY: (*Signature*)	DATE / TIME	RECEIVED BY: (*Signature*)	RELINQUISHED BY: (*Signature*)	DATE / TIME	RECEIVED BY: (*Signature*)
Thomas T Gail	1/25	[illegible] -WALTCO	Walco	1/26/16 0920	Laura Kaylie Lau 1/26/16 0920

AYRES ASSOCIATES
Ayres Associates Inc
Engineers/Architects/Scientists/Photogrammetrists
5201 E. Terrace Drive, Suite 200
Madison, WI 53718
(608)443-1200 Fax (608)443-1250

Shipped on ice: ____ yes ____ no

Received on ice: X yes ____ no

Temp. if **not** received on ice: _____

COMMENTS:

Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: Ayres

Project #: **WO# : 40127487**

40127487

Courier: ☐ Fed Ex ☐ UPS ☑ Client ☐ Pace Other: Walter

Tracking #: 968207

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

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 1-26-16 SKW
Initials:

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☐Yes	☑No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☐Yes	☑No	☐N/A	12. No collect date + time on all 40zp A. (1-26 SKW
-Includes date/time/ID/Analysis Matrix: S				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes	☑No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	14.
Trip Blank Present:	☐Yes	☐No	☑N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution: Original and copy of clients COC in shipment. 1-26-16 SKW

Project Manager Review: AMH for DM **Date:** 1/26/16

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 25, 2016

Tom Gaieck
Ayres & Associates, Inc
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Dear Tom Gaieck:
Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40132657001	**CS-23**	Solid	05/17/16 09:10	05/20/16 09:55
40132657002	**CS-24**	Solid	05/17/16 09:25	05/20/16 09:55
40132657003	**CS-25**	Solid	05/17/16 09:30	05/20/16 09:55
40132657004	**CS-26**	Solid	05/17/16 09:40	05/20/16 09:55
40132657005	**CS-27**	Solid	05/17/16 09:55	05/20/16 09:55
40132657006	**CS-28**	Solid	05/17/16 10:10	05/20/16 09:55
40132657007	**MEOH BLANK**	Solid	05/17/16 00:00	05/20/16 09:55

Pace Analytical Services, Inc.
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SAMPLE ANALYTE COUNT

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40132657001	**CS-23**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40132657002	**CS-24**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40132657003	**CS-25**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40132657004	**CS-26**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40132657005	**CS-27**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40132657006	**CS-28**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40132657007	**MEOH BLANK**	EPA 8260	SMT	64	PASI-G

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40132657001	**CS-23**					
ASTM D2974-87	Percent Moisture	8.9	%	0.10	05/23/16 12:35	
40132657002	**CS-24**					
ASTM D2974-87	Percent Moisture	9.4	%	0.10	05/23/16 12:35	
40132657003	**CS-25**					
ASTM D2974-87	Percent Moisture	7.3	%	0.10	05/23/16 12:35	
40132657004	**CS-26**					
ASTM D2974-87	Percent Moisture	11.6	%	0.10	05/23/16 12:35	
40132657005	**CS-27**					
ASTM D2974-87	Percent Moisture	7.9	%	0.10	05/23/16 12:35	
40132657006	**CS-28**					
ASTM D2974-87	Percent Moisture	5.5	%	0.10	05/23/16 12:35	

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: CS-23 **Lab ID: 40132657001** Collected: 05/17/16 09:10 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/23/16 09:15	05/24/16 08:10	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/23/16 09:15	05/24/16 08:10	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/23/16 09:15	05/24/16 08:10	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/23/16 09:15	05/24/16 08:10	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/23/16 09:15	05/24/16 08:10	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: CS-23 **Lab ID: 40132657001** Collected: 05/17/16 09:10 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/23/16 09:15	05/24/16 08:10	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/23/16 09:15	05/24/16 08:10	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:10	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	120	%	53-165		1	05/23/16 09:15	05/24/16 08:10	1868-53-7	
Toluene-d8 (S)	111	%	54-163		1	05/23/16 09:15	05/24/16 08:10	2037-26-5	
4-Bromofluorobenzene (S)	93	%	48-138		1	05/23/16 09:15	05/24/16 08:10	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.9**	%	0.10	0.10	1		05/23/16 12:35		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: CS-24 **Lab ID: 40132657002** Collected: 05/17/16 09:25 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/23/16 09:15	05/24/16 08:33	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/23/16 09:15	05/24/16 08:33	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/23/16 09:15	05/24/16 08:33	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/23/16 09:15	05/24/16 08:33	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/23/16 09:15	05/24/16 08:33	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: CS-24 **Lab ID: 40132657002** Collected: 05/17/16 09:25 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/23/16 09:15	05/24/16 08:33	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/23/16 09:15	05/24/16 08:33	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:33	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	127	%	53-165		1	05/23/16 09:15	05/24/16 08:33	1868-53-7	
Toluene-d8 (S)	117	%	54-163		1	05/23/16 09:15	05/24/16 08:33	2037-26-5	
4-Bromofluorobenzene (S)	96	%	48-138		1	05/23/16 09:15	05/24/16 08:33	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.4**	%	0.10	0.10	1		05/23/16 12:35		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: CS-25 **Lab ID: 40132657003** Collected: 05/17/16 09:30 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/23/16 09:15	05/24/16 08:55	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/23/16 09:15	05/24/16 08:55	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/23/16 09:15	05/24/16 08:55	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/23/16 09:15	05/24/16 08:55	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/23/16 09:15	05/24/16 08:55	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: CS-25 **Lab ID: 40132657003** Collected: 05/17/16 09:30 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/23/16 09:15	05/24/16 08:55	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/23/16 09:15	05/24/16 08:55	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 08:55	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	117	%	53-165		1	05/23/16 09:15	05/24/16 08:55	1868-53-7	
Toluene-d8 (S)	105	%	54-163		1	05/23/16 09:15	05/24/16 08:55	2037-26-5	
4-Bromofluorobenzene (S)	85	%	48-138		1	05/23/16 09:15	05/24/16 08:55	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.3**	%	0.10	0.10	1		05/23/16 12:35		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: CS-26 **Lab ID: 40132657004** Collected: 05/17/16 09:40 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/23/16 09:15	05/24/16 09:18	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/23/16 09:15	05/24/16 09:18	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/23/16 09:15	05/24/16 09:18	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/23/16 09:15	05/24/16 09:18	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/23/16 09:15	05/24/16 09:18	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: CS-26 **Lab ID: 40132657004** Collected: 05/17/16 09:40 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/23/16 09:15	05/24/16 09:18	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/23/16 09:15	05/24/16 09:18	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:18	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	107	%	53-165		1	05/23/16 09:15	05/24/16 09:18	1868-53-7	
Toluene-d8 (S)	95	%	54-163		1	05/23/16 09:15	05/24/16 09:18	2037-26-5	
4-Bromofluorobenzene (S)	80	%	48-138		1	05/23/16 09:15	05/24/16 09:18	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.6**	%	0.10	0.10	1		05/23/16 12:35		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: CS-27 **Lab ID: 40132657005** Collected: 05/17/16 09:55 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/23/16 09:15	05/24/16 09:40	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/23/16 09:15	05/24/16 09:40	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/23/16 09:15	05/24/16 09:40	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/23/16 09:15	05/24/16 09:40	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/23/16 09:15	05/24/16 09:40	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: CS-27 **Lab ID: 40132657005** Collected: 05/17/16 09:55 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/23/16 09:15	05/24/16 09:40	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/23/16 09:15	05/24/16 09:40	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 09:40	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	53-165		1	05/23/16 09:15	05/24/16 09:40	1868-53-7	
Toluene-d8 (S)	97	%	54-163		1	05/23/16 09:15	05/24/16 09:40	2037-26-5	
4-Bromofluorobenzene (S)	81	%	48-138		1	05/23/16 09:15	05/24/16 09:40	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.9**	%	0.10	0.10	1		05/23/16 12:35		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: CS-28 **Lab ID: 40132657006** Collected: 05/17/16 10:10 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/23/16 09:15	05/24/16 10:03	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/23/16 09:15	05/24/16 10:03	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/23/16 09:15	05/24/16 10:03	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/23/16 09:15	05/24/16 10:03	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/23/16 09:15	05/24/16 10:03	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: CS-28 **Lab ID: 40132657006** Collected: 05/17/16 10:10 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/23/16 09:15	05/24/16 10:03	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/23/16 09:15	05/24/16 10:03	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/24/16 10:03	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	111	%	53-165		1	05/23/16 09:15	05/24/16 10:03	1868-53-7	
Toluene-d8 (S)	103	%	54-163		1	05/23/16 09:15	05/24/16 10:03	2037-26-5	
4-Bromofluorobenzene (S)	82	%	48-138		1	05/23/16 09:15	05/24/16 10:03	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.5**	%	0.10	0.10	1		05/23/16 12:35		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: MEOH BLANK **Lab ID: 40132657007** Collected: 05/17/16 00:00 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/23/16 09:15	05/23/16 23:50	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/23/16 09:15	05/23/16 23:50	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/23/16 09:15	05/23/16 23:50	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/23/16 09:15	05/23/16 23:50	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/23/16 09:15	05/23/16 23:50	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Sample: MEOH BLANK **Lab ID: 40132657007** Collected: 05/17/16 00:00 Received: 05/20/16 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/23/16 09:15	05/23/16 23:50	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/23/16 09:15	05/23/16 23:50	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/23/16 09:15	05/23/16 23:50	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	114	%	53-165		1	05/23/16 09:15	05/23/16 23:50	1868-53-7	
Toluene-d8 (S)	95	%	54-163		1	05/23/16 09:15	05/23/16 23:50	2037-26-5	
4-Bromofluorobenzene (S)	81	%	48-138		1	05/23/16 09:15	05/23/16 23:50	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

QC Batch: MSV/33627 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40132657001, 40132657002, 40132657003, 40132657004, 40132657005, 40132657006, 40132657007

METHOD BLANK: 1339844 Matrix: Solid
Associated Lab Samples: 40132657001, 40132657002, 40132657003, 40132657004, 40132657005, 40132657006, 40132657007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	05/23/16 17:26	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	05/23/16 17:26	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	05/23/16 17:26	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	05/23/16 17:26	
1,1-Dichloroethane	ug/kg	<17.6	50.0	05/23/16 17:26	
1,1-Dichloroethene	ug/kg	<17.6	50.0	05/23/16 17:26	
1,1-Dichloropropene	ug/kg	<14.0	50.0	05/23/16 17:26	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	05/23/16 17:26	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	05/23/16 17:26	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	05/23/16 17:26	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	05/23/16 17:26	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	05/23/16 17:26	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	05/23/16 17:26	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	05/23/16 17:26	
1,2-Dichloroethane	ug/kg	<15.0	50.0	05/23/16 17:26	
1,2-Dichloropropane	ug/kg	<16.8	50.0	05/23/16 17:26	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	05/23/16 17:26	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	05/23/16 17:26	
1,3-Dichloropropane	ug/kg	<12.0	50.0	05/23/16 17:26	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	05/23/16 17:26	
2,2-Dichloropropane	ug/kg	<12.6	50.0	05/23/16 17:26	
2-Chlorotoluene	ug/kg	<15.8	50.0	05/23/16 17:26	
4-Chlorotoluene	ug/kg	<13.0	50.0	05/23/16 17:26	
Benzene	ug/kg	<9.2	20.0	05/23/16 17:26	
Bromobenzene	ug/kg	<20.6	50.0	05/23/16 17:26	
Bromochloromethane	ug/kg	<21.4	50.0	05/23/16 17:26	
Bromodichloromethane	ug/kg	<9.8	50.0	05/23/16 17:26	
Bromoform	ug/kg	<19.8	50.0	05/23/16 17:26	
Bromomethane	ug/kg	<69.9	250	05/23/16 17:26	
Carbon tetrachloride	ug/kg	<12.1	50.0	05/23/16 17:26	
Chlorobenzene	ug/kg	<14.8	50.0	05/23/16 17:26	
Chloroethane	ug/kg	<67.0	250	05/23/16 17:26	
Chloroform	ug/kg	<46.4	250	05/23/16 17:26	
Chloromethane	ug/kg	<20.4	50.0	05/23/16 17:26	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	05/23/16 17:26	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	05/23/16 17:26	
Dibromochloromethane	ug/kg	<17.9	50.0	05/23/16 17:26	
Dibromomethane	ug/kg	<19.3	50.0	05/23/16 17:26	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	05/23/16 17:26	
Diisopropyl ether	ug/kg	<17.7	50.0	05/23/16 17:26	
Ethylbenzene	ug/kg	<12.4	50.0	05/23/16 17:26	

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

METHOD BLANK: 1339844 Matrix: Solid
Associated Lab Samples: 40132657001, 40132657002, 40132657003, 40132657004, 40132657005, 40132657006, 40132657007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	05/23/16 17:26	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	05/23/16 17:26	
m&p-Xylene	ug/kg	<34.4	100	05/23/16 17:26	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	05/23/16 17:26	
Methylene Chloride	ug/kg	<16.2	50.0	05/23/16 17:26	
n-Butylbenzene	ug/kg	<10.5	50.0	05/23/16 17:26	
n-Propylbenzene	ug/kg	<11.6	50.0	05/23/16 17:26	
Naphthalene	ug/kg	<40.0	250	05/23/16 17:26	
o-Xylene	ug/kg	<14.0	50.0	05/23/16 17:26	
p-Isopropyltoluene	ug/kg	<12.0	50.0	05/23/16 17:26	
sec-Butylbenzene	ug/kg	<11.9	50.0	05/23/16 17:26	
Styrene	ug/kg	<9.0	50.0	05/23/16 17:26	
tert-Butylbenzene	ug/kg	<9.5	50.0	05/23/16 17:26	
Tetrachloroethene	ug/kg	<12.9	50.0	05/23/16 17:26	
Toluene	ug/kg	<11.2	50.0	05/23/16 17:26	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	05/23/16 17:26	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	05/23/16 17:26	
Trichloroethene	ug/kg	<23.6	50.0	05/23/16 17:26	
Trichlorofluoromethane	ug/kg	<24.7	50.0	05/23/16 17:26	
Vinyl chloride	ug/kg	<21.1	50.0	05/23/16 17:26	
4-Bromofluorobenzene (S)	%	85	48-138	05/23/16 17:26	
Dibromofluoromethane (S)	%	112	53-165	05/23/16 17:26	
Toluene-d8 (S)	%	104	54-163	05/23/16 17:26	

LABORATORY CONTROL SAMPLE: 1339845

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2590	103	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2740	110	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2710	108	70-130	
1,1-Dichloroethane	ug/kg	2500	2450	98	70-133	
1,1-Dichloroethene	ug/kg	2500	2190	88	70-130	
1,2,4-Trichlorobenzene	ug/kg	2500	2250	90	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2750	110	50-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2770	111	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2360	94	70-130	
1,2-Dichloroethane	ug/kg	2500	2620	105	70-138	
1,2-Dichloropropane	ug/kg	2500	2670	107	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2330	93	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2400	96	70-130	
Benzene	ug/kg	2500	2590	104	70-130	
Bromodichloromethane	ug/kg	2500	2830	113	70-130	
Bromoform	ug/kg	2500	2590	104	68-130	
Bromomethane	ug/kg	2500	1840	74	25-163	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

LABORATORY CONTROL SAMPLE: 1339845

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2580	103	70-130	
Chlorobenzene	ug/kg	2500	2520	101	70-130	
Chloroethane	ug/kg	2500	1750	70	34-151	
Chloroform	ug/kg	2500	2530	101	70-130	
Chloromethane	ug/kg	2500	1870	75	52-130	
cis-1,2-Dichloroethene	ug/kg	2500	2300	92	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2440	97	70-130	
Dibromochloromethane	ug/kg	2500	2880	115	70-130	
Dichlorodifluoromethane	ug/kg	2500	1320	53	27-150	
Ethylbenzene	ug/kg	2500	2540	101	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2330	93	70-130	
m&p-Xylene	ug/kg	5000	5250	105	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2740	109	70-130	
Methylene Chloride	ug/kg	2500	2530	101	70-131	
o-Xylene	ug/kg	2500	2500	100	70-130	
Styrene	ug/kg	2500	2470	99	70-130	
Tetrachloroethene	ug/kg	2500	2620	105	70-130	
Toluene	ug/kg	2500	2670	107	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2440	98	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2830	113	70-130	
Trichloroethene	ug/kg	2500	2720	109	70-130	
Trichlorofluoromethane	ug/kg	2500	2070	83	50-150	
Vinyl chloride	ug/kg	2500	1990	80	57-130	
4-Bromofluorobenzene (S)	%			102	48-138	
Dibromofluoromethane (S)	%			104	53-165	
Toluene-d8 (S)	%			103	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339846 1339847

Parameter	Units	40132593003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1440	1440	1420	1440	99	100	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1440	1440	1590	1520	111	106	70-130	5	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1440	1440	1580	1480	109	102	70-130	6	20	
1,1-Dichloroethane	ug/kg	<25.0	1440	1440	1350	1400	93	97	64-133	4	20	
1,1-Dichloroethene	ug/kg	<25.0	1440	1440	1040	1140	72	79	56-130	9	24	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1440	1440	1420	1300	99	90	70-130	9	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1440	1440	1770	1500	123	104	50-150	17	20	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1440	1440	1600	1430	111	99	70-130	11	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1440	1440	1440	1360	100	95	70-130	5	20	
1,2-Dichloroethane	ug/kg	<25.0	1440	1440	1520	1530	105	106	70-138	1	20	
1,2-Dichloropropane	ug/kg	<25.0	1440	1440	1430	1470	99	102	70-130	3	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1440	1440	1350	1300	94	90	70-130	4	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1440	1440	1450	1370	101	95	70-130	6	20	

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339846 1339847

Parameter	Units	40132593003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1440	1440	1440	1430	100	99	70-130	1	20	
Bromodichloromethane	ug/kg	<25.0	1440	1440	1540	1590	107	110	70-130	3	20	
Bromoform	ug/kg	<25.0	1440	1440	1650	1470	115	102	65-130	12	20	
Bromomethane	ug/kg	<69.9	1440	1440	1010	1010	70	70	11-163	1	21	
Carbon tetrachloride	ug/kg	<25.0	1440	1440	1370	1420	95	98	70-130	4	20	
Chlorobenzene	ug/kg	<25.0	1440	1440	1470	1460	102	102	70-130	0	20	
Chloroethane	ug/kg	<67.0	1440	1440	668	712	46	49	17-151	6	20	
Chloroform	ug/kg	<46.4	1440	1440	1460	1440	102	100	70-130	2	20	
Chloromethane	ug/kg	<25.0	1440	1440	941	968	65	67	13-130	3	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1440	1440	1320	1340	92	93	70-130	1	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1440	1440	1350	1360	94	94	70-130	0	20	
Dibromochloromethane	ug/kg	<25.0	1440	1440	1690	1560	117	108	70-130	8	20	
Dichlorodifluoromethane	ug/kg	<25.0	1440	1440	678	708	47	49	10-150	4	21	
Ethylbenzene	ug/kg	<25.0	1440	1440	1310	1330	91	92	70-130	1	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1440	1440	1210	1200	84	83	70-130	1	20	
m&p-Xylene	ug/kg	<50.0	2880	2880	2840	2800	98	97	70-130	1	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1440	1440	1610	1470	112	102	70-130	9	20	
Methylene Chloride	ug/kg	<25.0	1440	1440	1370	1370	95	95	70-131	0	20	
o-Xylene	ug/kg	<25.0	1440	1440	1340	1320	93	91	70-130	1	20	
Styrene	ug/kg	<25.0	1440	1440	1390	1360	97	94	70-130	3	20	
Tetrachloroethene	ug/kg	<25.0	1440	1440	1340	1330	93	92	70-130	1	20	
Toluene	ug/kg	<25.0	1440	1440	1460	1450	101	101	70-130	1	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1440	1440	1270	1270	88	88	70-130	0	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1440	1440	1510	1450	104	101	70-130	4	20	
Trichloroethene	ug/kg	<25.0	1440	1440	1410	1530	98	106	70-130	8	20	
Trichlorofluoromethane	ug/kg	<25.0	1440	1440	1100	1190	76	83	40-150	8	31	
Vinyl chloride	ug/kg	<25.0	1440	1440	997	1040	69	72	26-130	4	20	
4-Bromofluorobenzene (S)	%						105	100	48-138			
Dibromofluoromethane (S)	%						108	107	53-165			
Toluene-d8 (S)	%						107	104	54-163			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

QC Batch: PMST/12766 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40132657001, 40132657002, 40132657003, 40132657004, 40132657005, 40132657006

SAMPLE DUPLICATE: 1339766

Parameter	Units	40132635033 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.6	26.0	2	10	

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, Inc.
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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UNIVERSITY AVENUE
Pace Project No.: 40132657

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40132657001	**CS-23**	EPA 5035/5030B	MSV/33627	EPA 8260	MSV/33628
40132657002	**CS-24**	EPA 5035/5030B	MSV/33627	EPA 8260	MSV/33628
40132657003	**CS-25**	EPA 5035/5030B	MSV/33627	EPA 8260	MSV/33628
40132657004	**CS-26**	EPA 5035/5030B	MSV/33627	EPA 8260	MSV/33628
40132657005	**CS-27**	EPA 5035/5030B	MSV/33627	EPA 8260	MSV/33628
40132657006	**CS-28**	EPA 5035/5030B	MSV/33627	EPA 8260	MSV/33628
40132657007	**MEOH BLANK**	EPA 5035/5030B	MSV/33627	EPA 8260	MSV/33628
40132657001	**CS-23**	ASTM D2974-87	PMST/12766		
40132657002	**CS-24**	ASTM D2974-87	PMST/12766		
40132657003	**CS-25**	ASTM D2974-87	PMST/12766		
40132657004	**CS-26**	ASTM D2974-87	PMST/12766		
40132657005	**CS-27**	ASTM D2974-87	PMST/12766		
40132657006	**CS-28**	ASTM D2974-87	PMST/12766		

CHAIN OF CUSTODY RECORD

40132657 Pace

PROJECT NO.	PROJECT NAME/CLIENT	NO. OF CON-TAINERS	Field Filtered: VOC	REMARKS
	University Avenue			
SAMPLERS: (*Signature*) Thomas P Gawel				

SAMPLE NO.	DATE	TIME	OM	RA	SAMPLE LOCATION/ DESCRIPTION	NO. OF CON-TAINERS	VOC	REMARKS
001	5/17	9:10			CS-23	2	X	1-40ml VF 1-4oz AG
002	5/17	9:25			CS-24	2	X	
003	5/17	9:30			CS-25	2	X	
004	5/17	9:40			CS-26	2	X	
005	5/17	9:55			CS-27	2	X	
006	5/17	10:10			CS-28	2	X	
007					MeoH Blank	1	X	

Ayres Project Contact:

Ayres Project Manager:

Invoice To:

RELINQUISHED BY: (*Signature*)	DATE / TIME	RECEIVED BY: (*Signature*)	RELINQUISHED BY: (*Signature*)	DATE / TIME	RECEIVED BY: (*Signature*)
Thomas P Gawel	5/19	Brett Taylor	FEDEX Logistics	5/20/16 0955	Pace

Shipped on ice: X yes ____ no

Received on ice: X yes ____ no

Temp. if **not** received on ice: 0.0

COMMENTS:

AYRES ASSOCIATES

Ayres Associates Inc
Engineers/Architects/Scientists/Photogrammetrists
5201 E. Terrace Drive, Suite 200
Madison, WI 53718
(608)443-1200 Fax (608)443-1250

Sample Condition Upon Receipt

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

Project #: WO#: 40132657

40132657

Client Name: Aqres

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CS Logistics

Tracking #:

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

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

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

Cooler Temperature Uncorr: RUN /Corr:

Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 5/20/16
Initials: AMS

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☑No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☑Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CAS For DM **Date:** 5-20-16

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 31, 2017

Tom Gaieck
Ayres & Associates, Inc
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Dear Tom Gaieck:
Enclosed are the analytical results for sample(s) received by the laboratory on January 26, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40144894001	**MW-1R**	Water	01/24/17 12:15	01/26/17 10:00
40144894002	**MW-2R**	Water	01/24/17 11:25	01/26/17 10:00
40144894003	**MW-3R**	Water	01/24/17 11:50	01/26/17 10:00
40144894004	**TRIP BLANK**	Water	01/24/17 00:00	01/26/17 10:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40144894001	**MW-1R**	EPA 8260	LAP	64	PASI-G
40144894002	**MW-2R**	EPA 8260	LAP	64	PASI-G
40144894003	**MW-3R**	EPA 8260	LAP	64	PASI-G
40144894004	**TRIP BLANK**	EPA 8260	LAP	64	PASI-G

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40144894001	**MW-1R**					
EPA 8260	Tetrachloroethene	398	ug/L	4.0	01/30/17 12:25	M1
40144894002	**MW-2R**					
EPA 8260	Tetrachloroethene	19.5	ug/L	1.0	01/30/17 13:49	
40144894003	**MW-3R**					
EPA 8260	Tetrachloroethene	35.8	ug/L	1.0	01/30/17 14:12	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Sample: MW-1R **Lab ID: 40144894001** Collected: 01/24/17 12:15 Received: 01/26/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	71-43-2	
Bromobenzene	**<0.92**	ug/L	4.0	0.92	4		01/30/17 12:25	108-86-1	
Bromochloromethane	**<1.4**	ug/L	4.0	1.4	4		01/30/17 12:25	74-97-5	
Bromodichloromethane	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	75-27-4	
Bromoform	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	75-25-2	
Bromomethane	**<9.7**	ug/L	20.0	9.7	4		01/30/17 12:25	74-83-9	M1
n-Butylbenzene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	104-51-8	
sec-Butylbenzene	**<8.7**	ug/L	20.0	8.7	4		01/30/17 12:25	135-98-8	
tert-Butylbenzene	**<0.72**	ug/L	4.0	0.72	4		01/30/17 12:25	98-06-6	
Carbon tetrachloride	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	56-23-5	
Chlorobenzene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	108-90-7	
Chloroethane	**<1.5**	ug/L	4.0	1.5	4		01/30/17 12:25	75-00-3	
Chloroform	**<10.0**	ug/L	20.0	10.0	4		01/30/17 12:25	67-66-3	
Chloromethane	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	74-87-3	L3
2-Chlorotoluene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	95-49-8	
4-Chlorotoluene	**<0.85**	ug/L	4.0	0.85	4		01/30/17 12:25	106-43-4	
1,2-Dibromo-3-chloropropane	**<8.7**	ug/L	20.0	8.7	4		01/30/17 12:25	96-12-8	
Dibromochloromethane	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	124-48-1	
1,2-Dibromoethane (EDB)	**<0.71**	ug/L	4.0	0.71	4		01/30/17 12:25	106-93-4	
Dibromomethane	**<1.7**	ug/L	4.0	1.7	4		01/30/17 12:25	74-95-3	
1,2-Dichlorobenzene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	95-50-1	
1,3-Dichlorobenzene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	541-73-1	
1,4-Dichlorobenzene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	106-46-7	
Dichlorodifluoromethane	**<0.90**	ug/L	4.0	0.90	4		01/30/17 12:25	75-71-8	
1,1-Dichloroethane	**<0.97**	ug/L	4.0	0.97	4		01/30/17 12:25	75-34-3	
1,2-Dichloroethane	**<0.67**	ug/L	4.0	0.67	4		01/30/17 12:25	107-06-2	
1,1-Dichloroethene	**<1.6**	ug/L	4.0	1.6	4		01/30/17 12:25	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	4.0	1.0	4		01/30/17 12:25	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	4.0	1.0	4		01/30/17 12:25	156-60-5	
1,2-Dichloropropane	**<0.93**	ug/L	4.0	0.93	4		01/30/17 12:25	78-87-5	
1,3-Dichloropropane	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	142-28-9	
2,2-Dichloropropane	**<1.9**	ug/L	4.0	1.9	4		01/30/17 12:25	594-20-7	
1,1-Dichloropropene	**<1.8**	ug/L	4.0	1.8	4		01/30/17 12:25	563-58-6	
cis-1,3-Dichloropropene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	10061-01-5	
trans-1,3-Dichloropropene	**<0.92**	ug/L	4.0	0.92	4		01/30/17 12:25	10061-02-6	
Diisopropyl ether	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	108-20-3	
Ethylbenzene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	100-41-4	
Hexachloro-1,3-butadiene	**<8.4**	ug/L	20.0	8.4	4		01/30/17 12:25	87-68-3	
Isopropylbenzene (Cumene)	**<0.57**	ug/L	4.0	0.57	4		01/30/17 12:25	98-82-8	
p-Isopropyltoluene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	99-87-6	
Methylene Chloride	**<0.93**	ug/L	4.0	0.93	4		01/30/17 12:25	75-09-2	
Methyl-tert-butyl ether	**<0.70**	ug/L	4.0	0.70	4		01/30/17 12:25	1634-04-4	
Naphthalene	**<10.0**	ug/L	20.0	10.0	4		01/30/17 12:25	91-20-3	
n-Propylbenzene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	103-65-1	
Styrene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.72**	ug/L	4.0	0.72	4		01/30/17 12:25	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Sample: MW-1R **Lab ID: 40144894001** Collected: 01/24/17 12:15 Received: 01/26/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	4.0	1.0	4		01/30/17 12:25	79-34-5	
Tetrachloroethene	**398**	ug/L	4.0	2.0	4		01/30/17 12:25	127-18-4	M1
Toluene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	108-88-3	
1,2,3-Trichlorobenzene	**<8.5**	ug/L	20.0	8.5	4		01/30/17 12:25	87-61-6	
1,2,4-Trichlorobenzene	**<8.8**	ug/L	20.0	8.8	4		01/30/17 12:25	120-82-1	
1,1,1-Trichloroethane	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	71-55-6	
1,1,2-Trichloroethane	**<0.79**	ug/L	4.0	0.79	4		01/30/17 12:25	79-00-5	
Trichloroethene	**<1.3**	ug/L	4.0	1.3	4		01/30/17 12:25	79-01-6	
Trichlorofluoromethane	**<0.74**	ug/L	4.0	0.74	4		01/30/17 12:25	75-69-4	
1,2,3-Trichloropropane	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	96-18-4	
1,2,4-Trimethylbenzene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	95-63-6	
1,3,5-Trimethylbenzene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	108-67-8	
Vinyl chloride	**<0.70**	ug/L	4.0	0.70	4		01/30/17 12:25	75-01-4	
m&p-Xylene	**<4.0**	ug/L	8.0	4.0	4		01/30/17 12:25	179601-23-1	
o-Xylene	**<2.0**	ug/L	4.0	2.0	4		01/30/17 12:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		4		01/30/17 12:25	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		4		01/30/17 12:25	1868-53-7	
Toluene-d8 (S)	96	%	70-130		4		01/30/17 12:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Sample: MW-2R **Lab ID: 40144894002** Collected: 01/24/17 11:25 Received: 01/26/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/30/17 13:49	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/30/17 13:49	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/30/17 13:49	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/30/17 13:49	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/30/17 13:49	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/30/17 13:49	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/30/17 13:49	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	74-87-3	L3
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/30/17 13:49	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/30/17 13:49	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/30/17 13:49	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/30/17 13:49	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/30/17 13:49	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/30/17 13:49	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/30/17 13:49	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/30/17 13:49	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/30/17 13:49	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/30/17 13:49	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/30/17 13:49	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/30/17 13:49	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/30/17 13:49	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/30/17 13:49	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/30/17 13:49	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/30/17 13:49	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/30/17 13:49	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/30/17 13:49	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/30/17 13:49	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/30/17 13:49	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Sample: MW-2R **Lab ID: 40144894002** Collected: 01/24/17 11:25 Received: 01/26/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		01/30/17 13:49	79-34-5	
Tetrachloroethene	**19.5**	ug/L	1.0	0.50	1		01/30/17 13:49	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/30/17 13:49	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/30/17 13:49	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/30/17 13:49	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/30/17 13:49	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/30/17 13:49	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/30/17 13:49	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/30/17 13:49	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 13:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	70-130		1		01/30/17 13:49	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		01/30/17 13:49	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		01/30/17 13:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Sample: MW-3R **Lab ID: 40144894003** Collected: 01/24/17 11:50 Received: 01/26/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/30/17 14:12	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/30/17 14:12	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/30/17 14:12	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/30/17 14:12	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/30/17 14:12	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/30/17 14:12	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/30/17 14:12	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	74-87-3	L3
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/30/17 14:12	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/30/17 14:12	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/30/17 14:12	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/30/17 14:12	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/30/17 14:12	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/30/17 14:12	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/30/17 14:12	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/30/17 14:12	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/30/17 14:12	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/30/17 14:12	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/30/17 14:12	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/30/17 14:12	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/30/17 14:12	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/30/17 14:12	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/30/17 14:12	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/30/17 14:12	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/30/17 14:12	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/30/17 14:12	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/30/17 14:12	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/30/17 14:12	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Sample: MW-3R **Lab ID: 40144894003** Collected: 01/24/17 11:50 Received: 01/26/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		01/30/17 14:12	79-34-5	
Tetrachloroethene	**35.8**	ug/L	1.0	0.50	1		01/30/17 14:12	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/30/17 14:12	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/30/17 14:12	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/30/17 14:12	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/30/17 14:12	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/30/17 14:12	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/30/17 14:12	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/30/17 14:12	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 14:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		01/30/17 14:12	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/30/17 14:12	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		01/30/17 14:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Sample: TRIP BLANK **Lab ID: 40144894004** Collected: 01/24/17 00:00 Received: 01/26/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/30/17 15:20	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/30/17 15:20	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/30/17 15:20	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/30/17 15:20	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/30/17 15:20	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/30/17 15:20	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/30/17 15:20	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	74-87-3	L3
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/30/17 15:20	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/30/17 15:20	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/30/17 15:20	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/30/17 15:20	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/30/17 15:20	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/30/17 15:20	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/30/17 15:20	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/30/17 15:20	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/30/17 15:20	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/30/17 15:20	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/30/17 15:20	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/30/17 15:20	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/30/17 15:20	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/30/17 15:20	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/30/17 15:20	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/30/17 15:20	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/30/17 15:20	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/30/17 15:20	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/30/17 15:20	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/30/17 15:20	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Sample: TRIP BLANK **Lab ID: 40144894004** Collected: 01/24/17 00:00 Received: 01/26/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		01/30/17 15:20	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/30/17 15:20	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/30/17 15:20	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/30/17 15:20	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/30/17 15:20	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/30/17 15:20	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/30/17 15:20	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/30/17 15:20	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/30/17 15:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		01/30/17 15:20	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		01/30/17 15:20	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		01/30/17 15:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

QC Batch: 247173 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40144894001, 40144894002, 40144894003, 40144894004

METHOD BLANK: 1460948 Matrix: Water
Associated Lab Samples: 40144894001, 40144894002, 40144894003, 40144894004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	01/30/17 10:32	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	01/30/17 10:32	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	01/30/17 10:32	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	01/30/17 10:32	
1,1-Dichloroethane	ug/L	<0.24	1.0	01/30/17 10:32	
1,1-Dichloroethene	ug/L	<0.41	1.0	01/30/17 10:32	
1,1-Dichloropropene	ug/L	<0.44	1.0	01/30/17 10:32	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	01/30/17 10:32	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	01/30/17 10:32	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	01/30/17 10:32	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	01/30/17 10:32	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	01/30/17 10:32	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	01/30/17 10:32	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	01/30/17 10:32	
1,2-Dichloroethane	ug/L	<0.17	1.0	01/30/17 10:32	
1,2-Dichloropropane	ug/L	<0.23	1.0	01/30/17 10:32	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	01/30/17 10:32	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	01/30/17 10:32	
1,3-Dichloropropane	ug/L	<0.50	1.0	01/30/17 10:32	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	01/30/17 10:32	
2,2-Dichloropropane	ug/L	<0.48	1.0	01/30/17 10:32	
2-Chlorotoluene	ug/L	<0.50	1.0	01/30/17 10:32	
4-Chlorotoluene	ug/L	<0.21	1.0	01/30/17 10:32	
Benzene	ug/L	<0.50	1.0	01/30/17 10:32	
Bromobenzene	ug/L	<0.23	1.0	01/30/17 10:32	
Bromochloromethane	ug/L	<0.34	1.0	01/30/17 10:32	
Bromodichloromethane	ug/L	<0.50	1.0	01/30/17 10:32	
Bromoform	ug/L	<0.50	1.0	01/30/17 10:32	
Bromomethane	ug/L	<2.4	5.0	01/30/17 10:32	
Carbon tetrachloride	ug/L	<0.50	1.0	01/30/17 10:32	
Chlorobenzene	ug/L	<0.50	1.0	01/30/17 10:32	
Chloroethane	ug/L	<0.37	1.0	01/30/17 10:32	
Chloroform	ug/L	<2.5	5.0	01/30/17 10:32	
Chloromethane	ug/L	<0.50	1.0	01/30/17 10:32	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	01/30/17 10:32	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	01/30/17 10:32	
Dibromochloromethane	ug/L	<0.50	1.0	01/30/17 10:32	
Dibromomethane	ug/L	<0.43	1.0	01/30/17 10:32	
Dichlorodifluoromethane	ug/L	<0.22	1.0	01/30/17 10:32	
Diisopropyl ether	ug/L	<0.50	1.0	01/30/17 10:32	
Ethylbenzene	ug/L	<0.50	1.0	01/30/17 10:32	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

METHOD BLANK: 1460948 Matrix: Water
Associated Lab Samples: 40144894001, 40144894002, 40144894003, 40144894004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	01/30/17 10:32	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	01/30/17 10:32	
m&p-Xylene	ug/L	<1.0	2.0	01/30/17 10:32	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	01/30/17 10:32	
Methylene Chloride	ug/L	<0.23	1.0	01/30/17 10:32	
n-Butylbenzene	ug/L	<0.50	1.0	01/30/17 10:32	
n-Propylbenzene	ug/L	<0.50	1.0	01/30/17 10:32	
Naphthalene	ug/L	<2.5	5.0	01/30/17 10:32	
o-Xylene	ug/L	<0.50	1.0	01/30/17 10:32	
p-Isopropyltoluene	ug/L	<0.50	1.0	01/30/17 10:32	
sec-Butylbenzene	ug/L	<2.2	5.0	01/30/17 10:32	
Styrene	ug/L	<0.50	1.0	01/30/17 10:32	
tert-Butylbenzene	ug/L	<0.18	1.0	01/30/17 10:32	
Tetrachloroethene	ug/L	<0.50	1.0	01/30/17 10:32	
Toluene	ug/L	<0.50	1.0	01/30/17 10:32	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	01/30/17 10:32	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	01/30/17 10:32	
Trichloroethene	ug/L	<0.33	1.0	01/30/17 10:32	
Trichlorofluoromethane	ug/L	<0.18	1.0	01/30/17 10:32	
Vinyl chloride	ug/L	<0.18	1.0	01/30/17 10:32	
4-Bromofluorobenzene (S)	%	86	70-130	01/30/17 10:32	
Dibromofluoromethane (S)	%	101	70-130	01/30/17 10:32	
Toluene-d8 (S)	%	98	70-130	01/30/17 10:32	

LABORATORY CONTROL SAMPLE: 1460949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.1	108	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	52.4	105	67-130	
1,1,2-Trichloroethane	ug/L	50	54.1	108	70-130	
1,1-Dichloroethane	ug/L	50	48.8	98	70-133	
1,1-Dichloroethene	ug/L	50	56.4	113	70-130	
1,2,4-Trichlorobenzene	ug/L	50	55.9	112	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	58.4	117	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	57.3	115	70-130	
1,2-Dichlorobenzene	ug/L	50	51.2	102	70-130	
1,2-Dichloroethane	ug/L	50	54.6	109	70-130	
1,2-Dichloropropane	ug/L	50	52.0	104	70-130	
1,3-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,4-Dichlorobenzene	ug/L	50	47.4	95	70-130	
Benzene	ug/L	50	55.5	111	60-135	
Bromodichloromethane	ug/L	50	53.8	108	70-130	
Bromoform	ug/L	50	58.1	116	70-130	
Bromomethane	ug/L	50	54.2	108	33-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

LABORATORY CONTROL SAMPLE: 1460949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	56.0	112	70-138	
Chlorobenzene	ug/L	50	53.2	106	70-130	
Chloroethane	ug/L	50	61.7	123	51-130	
Chloroform	ug/L	50	53.4	107	70-130	
Chloromethane	ug/L	50	66.4	133	25-132	L0
cis-1,2-Dichloroethene	ug/L	50	50.6	101	69-130	
cis-1,3-Dichloropropene	ug/L	50	54.3	109	70-130	
Dibromochloromethane	ug/L	50	55.0	110	70-130	
Dichlorodifluoromethane	ug/L	50	55.2	110	23-130	
Ethylbenzene	ug/L	50	56.8	114	70-136	
Isopropylbenzene (Cumene)	ug/L	50	58.9	118	70-140	
m&p-Xylene	ug/L	100	118	118	70-138	
Methyl-tert-butyl ether	ug/L	50	56.0	112	66-138	
Methylene Chloride	ug/L	50	48.1	96	70-130	
o-Xylene	ug/L	50	58.8	118	70-134	
Styrene	ug/L	50	54.7	109	70-133	
Tetrachloroethene	ug/L	50	55.4	111	70-138	
Toluene	ug/L	50	56.9	114	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.3	103	70-131	
trans-1,3-Dichloropropene	ug/L	50	52.7	105	69-130	
Trichloroethene	ug/L	50	56.9	114	70-130	
Trichlorofluoromethane	ug/L	50	62.1	124	50-150	
Vinyl chloride	ug/L	50	64.1	128	49-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1461429 1461430

Parameter	Units	40144894001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<2.0	50	50	53.4	54.3	107	109	70-134	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	49.1	50.6	98	101	67-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.79	50	50	50.6	49.4	101	99	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.97	50	50	51.5	48.7	103	97	70-134	6	20	
1,1-Dichloroethene	ug/L	<1.6	50	50	54.6	55.0	109	110	68-136	1	20	
1,2,4-Trichlorobenzene	ug/L	<8.8	50	50	53.7	56.9	107	114	62-139	6	20	
1,2-Dibromo-3-chloropropane	ug/L	<8.7	50	50	48.0	48.5	96	97	50-150	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.71	50	50	53.8	53.1	108	106	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<2.0	50	50	50.7	54.6	101	109	70-130	7	20	
1,2-Dichloroethane	ug/L	<0.67	50	50	50.5	49.6	101	99	70-130	2	20	
1,2-Dichloropropane	ug/L	<0.93	50	50	52.1	51.4	104	103	70-130	1	20	
1,3-Dichlorobenzene	ug/L	<2.0	50	50	53.1	54.0	106	108	70-131	2	20	
1,4-Dichlorobenzene	ug/L	<2.0	50	50	49.3	49.3	99	99	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1461429 1461430

Parameter	Units	40144894001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<2.0	50	50	55.3	55.7	111	111	57-138	1	20	
Bromodichloromethane	ug/L	<2.0	50	50	53.5	52.3	107	105	70-130	2	20	
Bromoform	ug/L	<2.0	50	50	50.7	51.9	101	104	70-130	2	20	
Bromomethane	ug/L	<9.7	50	50	65.7	66.5	131	133	33-130	1	27	M1
Carbon tetrachloride	ug/L	<2.0	50	50	54.1	54.0	108	108	70-138	0	20	
Chlorobenzene	ug/L	<2.0	50	50	53.8	54.0	108	108	70-130	0	20	
Chloroethane	ug/L	<1.5	50	50	60.2	59.5	120	119	51-130	1	20	
Chloroform	ug/L	<10.0	50	50	52.8	52.3	106	105	70-130	1	20	
Chloromethane	ug/L	<2.0	50	50	65.0	64.5	130	129	25-132	1	20	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	50.4	52.5	101	105	61-140	4	20	
cis-1,3-Dichloropropene	ug/L	<2.0	50	50	53.5	52.9	107	106	70-130	1	20	
Dibromochloromethane	ug/L	<2.0	50	50	53.1	52.5	106	105	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.90	50	50	52.1	52.5	104	105	23-130	1	20	
Ethylbenzene	ug/L	<2.0	50	50	57.4	57.5	115	115	70-138	0	20	
Isopropylbenzene (Cumene)	ug/L	<0.57	50	50	58.3	58.4	117	117	70-152	0	20	
m&p-Xylene	ug/L	<4.0	100	100	119	115	119	115	70-140	4	20	
Methyl-tert-butyl ether	ug/L	<0.70	50	50	53.5	51.2	107	102	66-139	4	20	
Methylene Chloride	ug/L	<0.93	50	50	49.7	46.0	99	92	70-130	8	20	
o-Xylene	ug/L	<2.0	50	50	57.4	59.3	115	119	70-134	3	20	
Styrene	ug/L	<2.0	50	50	55.4	52.2	111	104	70-138	6	20	
Tetrachloroethene	ug/L	398	50	50	488	406	181	16	70-148	18	20	E,M1
Toluene	ug/L	<2.0	50	50	58.5	59.0	117	118	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	52.1	50.8	104	102	70-133	2	20	
trans-1,3-Dichloropropene	ug/L	<0.92	50	50	50.4	49.6	101	99	69-130	2	20	
Trichloroethene	ug/L	<1.3	50	50	55.7	56.8	111	114	70-131	2	20	
Trichlorofluoromethane	ug/L	<0.74	50	50	61.0	60.0	122	120	50-150	2	20	
Vinyl chloride	ug/L	<0.70	50	50	63.4	63.2	127	126	49-133	0	20	
4-Bromofluorobenzene (S)	%						98	96	70-130			
Dibromofluoromethane (S)	%						97	96	70-130			
Toluene-d8 (S)	%						100	98	70-130			

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
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UNIVERSITY AVENUE
Pace Project No.: 40144894

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40144894001	**MW-1R**	EPA 8260	247173		
40144894002	**MW-2R**	EPA 8260	247173		
40144894003	**MW-3R**	EPA 8260	247173		
40144894004	**TRIP BLANK**	EPA 8260	247173		

Pace Analytical®
www.pacelabs.com

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

Page 1 of

4014894

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	Ayres Associates
Branch/Location:	Madison
Project Contact:	Tom Gaieck
Phone:	608 443 1200
Project Number:	
Project Name:	University Avenue
Project State:	Wisconsin
Sampled By (Print):	Jeff Steyer/Tom Gaieck
Sampled By (Sign):	Thomas P Gaieck
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	Tom Gaieck
Mail To Company:	Ayres Associates
Mail To Address:	5201 E Terrace Dr Suite 200 Madison Wisconsin 53718
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	B	VOC			
001	MW-1R	1/24	12:15	GW		X			3-40mlVB	
002	MW-2R	1/24	11:25	GW		X			↓	
003	MW-3R	1/24	11:50	GW		X			2-40mlVB	
004	Trip Blank					X				

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

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

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

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Thomas P Gaieck	1/25		
CS Logistics	1/26/17 1000	Katie Johnson RCO	1/26/17 1000

PACE Project No.: 4014894

Receipt Temp = R01 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present

Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

Sample Condition Upon Receipt

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

Project #: WO#: 40144894

Client Name: Ayres Associates

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace ☑ Other: CS Logistics

Tracking #: 1600-012417

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

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

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

Cooler Temperature Uncorr: /Corr: R01 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents: Date: 1/26/17 Initials: KF

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished: KF 1/26/17	☑Yes ☐No ☐N/A	3. no relinquish time KF 1/26/17
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: (VOA) coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	14.
Trip Blank Present:	☑Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 372		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution: no tape around cooler KF 1/26/17

Project Manager Review: Must for QM **Date:** 1/26/17

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

February 07, 2017

Tom Gaieck
Ayres Associates
5201 E. Terrace Drive
Suite 200
Madison, WI 53718

RE: Project: 2505 University Ave
Pace Project No.: 10377271

Dear Tom Gaieck:
Enclosed are the analytical results for sample(s) received by the laboratory on January 26, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 2505 University Ave
Pace Project No.: 10377271

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
Alaska Certification UST-107
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 2505 University Ave
Pace Project No.: 10377271

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10377271001	**IA107**	Air	01/24/17 10:35	01/26/17 09:20
10377271002	**OA107**	Air	01/24/17 10:40	01/26/17 09:20
10377271003	**IA101**	Air	01/24/17 10:43	01/26/17 09:20
10377271004	**IA103**	Air	01/24/17 10:52	01/26/17 09:20
10377271005	**V-1**	Air	01/24/17 02:35	01/26/17 09:20
10377271006	**V-2**	Air	01/24/17 02:46	01/26/17 09:20
10377271007	**V-3**	Air	01/24/17 02:58	01/26/17 09:20
10377271008	**V-4**	Air	01/24/17 03:12	01/26/17 09:20

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(612)607-1700

SAMPLE ANALYTE COUNT

Project: 2505 University Ave
Pace Project No.: 10377271

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10377271001	**IA107**	TO-15	NCK	5	PASI-M
10377271002	**OA107**	TO-15	NCK	5	PASI-M
10377271003	**IA101**	TO-15	NCK	5	PASI-M
10377271004	**IA103**	TO-15	NCK	5	PASI-M
10377271005	**V-1**	TO-15	NCK	5	PASI-M
10377271006	**V-2**	TO-15	NCK	5	PASI-M
10377271007	**V-3**	TO-15	NCK	5	PASI-M
10377271008	**V-4**	TO-15	NCK	5	PASI-M

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ANALYTICAL RESULTS

Project: 2505 University Ave
Pace Project No.: 10377271

Sample: IA107 **Lab ID: 10377271001** Collected: 01/24/17 10:35 Received: 01/26/17 09:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.3	0.38	1.55		01/29/17 20:01	156-59-2	
trans-1,2-Dichloroethene	**<0.60**	ug/m3	1.3	0.60	1.55		01/29/17 20:01	156-60-5	
Tetrachloroethene	**311**	ug/m3	1.1	0.43	1.55		01/29/17 20:01	127-18-4	
Trichloroethene	**<0.43**	ug/m3	0.85	0.43	1.55		01/29/17 20:01	79-01-6	
Vinyl chloride	**<0.30**	ug/m3	0.40	0.30	1.55		01/29/17 20:01	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 2505 University Ave
Pace Project No.: 10377271

Sample: OA107 **Lab ID: 10377271002** Collected: 01/24/17 10:40 Received: 01/26/17 09:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.35**	ug/m3	1.2	0.35	1.44		01/29/17 21:05	156-59-2	
trans-1,2-Dichloroethene	**<0.55**	ug/m3	1.2	0.55	1.44		01/29/17 21:05	156-60-5	
Tetrachloroethene	**<0.40**	ug/m3	0.99	0.40	1.44		01/29/17 21:05	127-18-4	
Trichloroethene	**<0.40**	ug/m3	0.79	0.40	1.44		01/29/17 21:05	79-01-6	
Vinyl chloride	**<0.28**	ug/m3	0.37	0.28	1.44		01/29/17 21:05	75-01-4	

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ANALYTICAL RESULTS

Project: 2505 University Ave
Pace Project No.: 10377271

Sample: IA101 **Lab ID: 10377271003** Collected: 01/24/17 10:43 Received: 01/26/17 09:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.2	0.37	1.49		01/29/17 22:04	156-59-2	
trans-1,2-Dichloroethene	**<0.57**	ug/m3	1.2	0.57	1.49		01/29/17 22:04	156-60-5	
Tetrachloroethene	**213**	ug/m3	1.0	0.41	1.49		01/29/17 22:04	127-18-4	
Trichloroethene	**<0.41**	ug/m3	0.82	0.41	1.49		01/29/17 22:04	79-01-6	
Vinyl chloride	**<0.29**	ug/m3	0.39	0.29	1.49		01/29/17 22:04	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 2505 University Ave
Pace Project No.: 10377271

Sample: IA103 **Lab ID: 10377271004** Collected: 01/24/17 10:52 Received: 01/26/17 09:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.3	0.38	1.55		01/29/17 23:07	156-59-2	
trans-1,2-Dichloroethene	**<0.60**	ug/m3	1.3	0.60	1.55		01/29/17 23:07	156-60-5	
Tetrachloroethene	**70.1**	ug/m3	1.1	0.43	1.55		01/29/17 23:07	127-18-4	
Trichloroethene	**<0.43**	ug/m3	0.85	0.43	1.55		01/29/17 23:07	79-01-6	
Vinyl chloride	**<0.30**	ug/m3	0.40	0.30	1.55		01/29/17 23:07	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

Project: 2505 University Ave
Pace Project No.: 10377271

Sample: V-1 **Lab ID: 10377271005** Collected: 01/24/17 02:35 Received: 01/26/17 09:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		01/29/17 23:39	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		01/29/17 23:39	156-60-5	
Tetrachloroethene	**2.0**	ug/m3	1.2	0.49	1.75		01/29/17 23:39	127-18-4	
Trichloroethene	**<0.48**	ug/m3	0.96	0.48	1.75		01/29/17 23:39	79-01-6	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		01/29/17 23:39	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 2505 University Ave
Pace Project No.: 10377271

Sample: V-2 **Lab ID: 10377271006** Collected: 01/24/17 02:46 Received: 01/26/17 09:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		01/30/17 00:10	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		01/30/17 00:10	156-60-5	
Tetrachloroethene	**8.9**	ug/m3	1.2	0.47	1.68		01/30/17 00:10	127-18-4	
Trichloroethene	**<0.46**	ug/m3	0.92	0.46	1.68		01/30/17 00:10	79-01-6	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		01/30/17 00:10	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 2505 University Ave
Pace Project No.: 10377271

Sample: V-3 **Lab ID: 10377271007** Collected: 01/24/17 02:58 Received: 01/26/17 09:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.3	0.40	1.61		01/30/17 00:42	156-59-2	
trans-1,2-Dichloroethene	**<0.62**	ug/m3	1.3	0.62	1.61		01/30/17 00:42	156-60-5	
Tetrachloroethene	**3.8**	ug/m3	1.1	0.45	1.61		01/30/17 00:42	127-18-4	
Trichloroethene	**<0.44**	ug/m3	0.89	0.44	1.61		01/30/17 00:42	79-01-6	
Vinyl chloride	**<0.31**	ug/m3	0.42	0.31	1.61		01/30/17 00:42	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

Project: 2505 University Ave
Pace Project No.: 10377271

Sample: V-4 **Lab ID: 10377271008** Collected: 01/24/17 03:12 Received: 01/26/17 09:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		01/30/17 01:13	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		01/30/17 01:13	156-60-5	
Tetrachloroethene	**6.8**	ug/m3	1.3	0.51	1.83		01/30/17 01:13	127-18-4	
Trichloroethene	**<0.51**	ug/m3	1.0	0.51	1.83		01/30/17 01:13	79-01-6	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		01/30/17 01:13	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2505 University Ave
Pace Project No.: 10377271

QC Batch: 457761 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10377271001, 10377271002, 10377271003, 10377271004, 10377271005, 10377271006, 10377271007, 10377271008

METHOD BLANK: 2506038 Matrix: Air
Associated Lab Samples: 10377271001, 10377271002, 10377271003, 10377271004, 10377271005, 10377271006, 10377271007, 10377271008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	01/29/17 14:09	
Tetrachloroethene	ug/m3	<0.28	0.69	01/29/17 14:09	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	01/29/17 14:09	
Trichloroethene	ug/m3	<0.28	0.55	01/29/17 14:09	
Vinyl chloride	ug/m3	<0.20	0.26	01/29/17 14:09	

LABORATORY CONTROL SAMPLE: 2506039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	43.9	46.3	105	65-139	
Tetrachloroethene	ug/m3	72.4	76.1	105	60-142	
trans-1,2-Dichloroethene	ug/m3	41.9	46.5	111	67-137	
Trichloroethene	ug/m3	57.9	60.9	105	60-144	
Vinyl chloride	ug/m3	27	27.2	101	63-135	

SAMPLE DUPLICATE: 2506210

Parameter	Units	10377271001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.38	<0.38		25	
Tetrachloroethene	ug/m3	311	308	1	25	
trans-1,2-Dichloroethene	ug/m3	<0.60	<0.60		25	
Trichloroethene	ug/m3	<0.43	<0.43		25	
Vinyl chloride	ug/m3	<0.30	<0.30		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: 2505 University Ave
Pace Project No.: 10377271

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2505 University Ave
Pace Project No.: 10377271

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10377271001	**IA107**	TO-15	457761		
10377271002	**OA107**	TO-15	457761		
10377271003	**IA101**	TO-15	457761		
10377271004	**IA103**	TO-15	457761		
10377271005	**V-1**	TO-15	457761		
10377271006	**V-2**	TO-15	457761		
10377271007	**V-3**	TO-15	457761		
10377271008	**V-4**	TO-15	457761		

10377271

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

22766

Page: 1 of 1

Section A Required Client Information:

Company: Ayres Associates
Address: 5201 E. Terrace Drive #200
Madison Wisconsin 53718
Email To: gaieckt@ayresassociates.com
Phone: 608 443 1200 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: 2505 University Ave
Project Number:

Section C Invoice Information:

Attention: Tom Gaieck
Company Name: Ayres Associates
Address: 5201 E Terrace Drive Suite 200 Madison
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

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	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	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 X	TO15 Short List*	Pace Lab ID
1	IA107	LLC		1/24	10:35			30	5	1277									X		001
2	OA 107	LLC		1/24	10:40			29	4	1871									X		002
3	IA 101	LLC		1/24	10:43			30	4	2716									X		003
4	IA 103	LLC		1/24	10:52			30	5	2720									X		004
5	V-1	LLC		1/24	2:35			28	8	2317									X		005
6	V-2	LLC		1/24	2:46			30	8	484									X		006
7	V-3	LLC		1/24	2:58			30	6	2702									X		007
8	V-4	LLC		1/24	3:12			28	9	2025									X		008
9																					
10																					
11																					
12																					

Comments: *TO-15 – Tetrachloroethene, Trichloroethene, CIS-1,2-Dichloroethene, trans 1,2-Dichloroethene, Vinyl Chloride

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Thomas Gaieck/Ayres	1/25	11:40	[signature] Pace	12617	0420	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: Thomas P Gaieck

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY)

Temp in °C | Received on Ice | Custody Sealed Cooler | Samples intact

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Ayres Assoc.

Project #: WO# : 10377271

10377271

Courier: ☒ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 6637 5041 0691, 6637 5041 0680

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

Optional: Proj. Due Date: Proj. Name:

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

Temp. (TO17 and TO13 samples only) (°C): 0 **Corrected Temp (°C):** 0 **Thermom. Used:** ☐ B88A912167504 ☐ B88A0143310098 ☐ 151401163 ☐ 151401164

Temp should be above freezing to 6°C **Correction Factor:** 0 **Date & Initials of Person Examining Contents:** 1/26/17

Type of ice Received ☐ Blue ☐ Wet ☒ None

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

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
	1277	0260			
	~~1071~~ (2nd) ~~0148~~ 0		1071	0148	
	2716	0234			
	2720	0454			
	2317	1178			
	0484	0725			
	~~1668 2703~~ 2702	0670			
	2025	0655			

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

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Roberg **Date:** 1/26/17

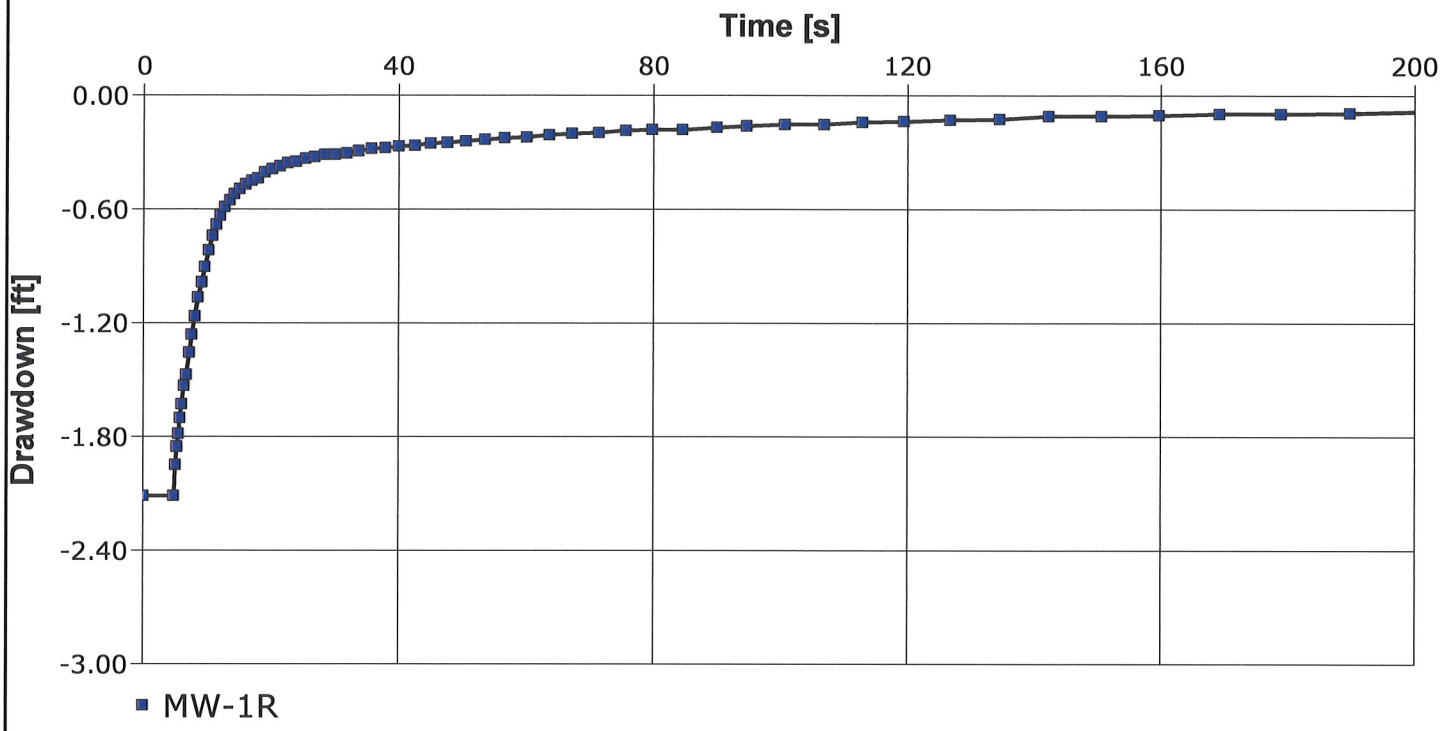
Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Appendix B

Hydraulic Conductivity Data

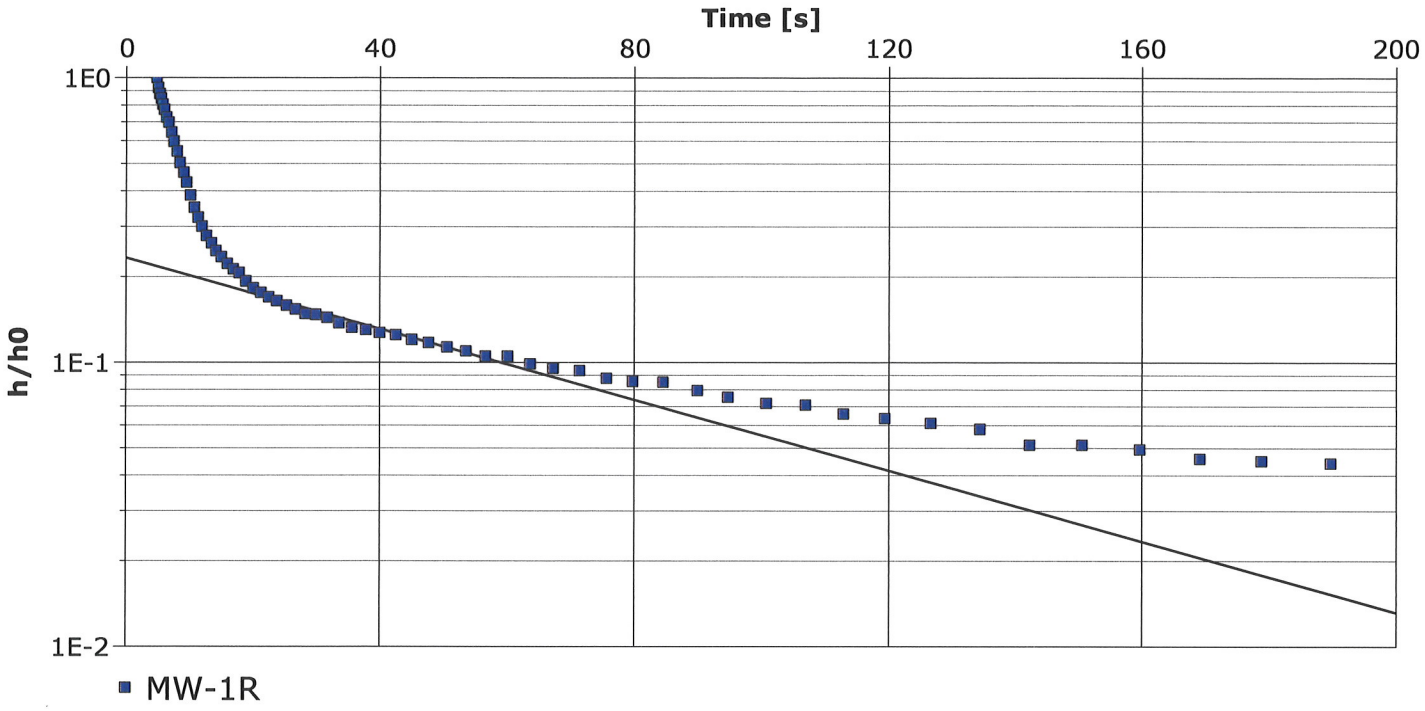
Ayres Associates 5201 E. Terrace Drive, Suite 200 Madison, WI 53718	Slug Test Analysis Report
	Project: University Avenue
	Number: 19-0598.00
	Client: Lindholm Properties

Location: Madison, WI	Slug Test: MW-1R Slug Out	Test Well: MW-1R
Test Conducted by: Jeff Steiner		Test Date: 1/24/2017
Analysis Performed by: Jeff Steiner	MW-1R Slug Out Time- Drawdown	Analysis Date: 1/31/2017
Aquifer Thickness: 10.00 ft		



Ayres Associates 5201 E. Terrace Drive, Suite 200 Madison, WI 53718	**Slug Test Analysis Report**
	Project: University Avenue
	Number: 19-0598.00
	Client: Lindholm Properties

Location: Madison, WI	Slug Test: MW-1R Slug Out	Test Well: MW-1R
Test Conducted by: Jeff Steiner		Test Date: 1/24/2017
Analysis Performed by: Jeff Steiner	MW-1R Slug Out Bouwer & Rice	Analysis Date: 1/31/2017
Aquifer Thickness: 10.00 ft		



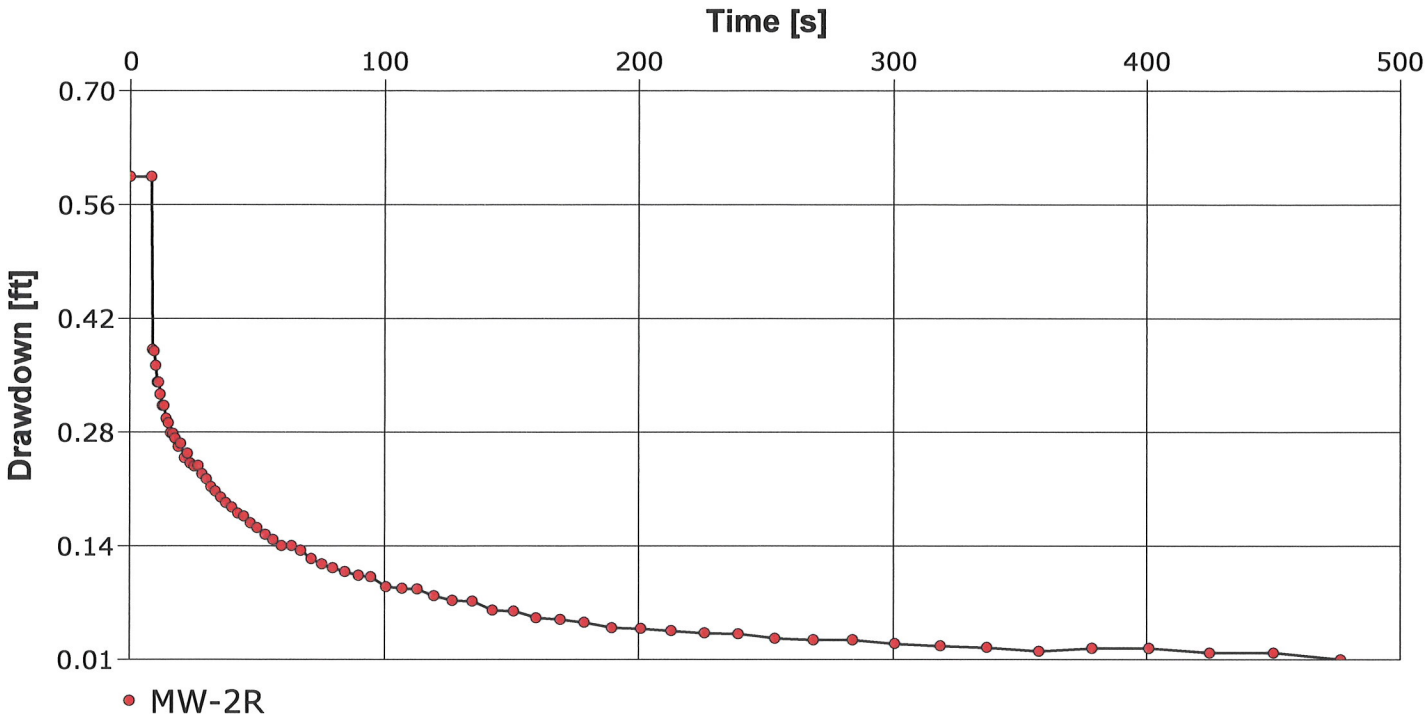
Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity [ft/s]	
MW-1R	2.57×10^{-5}	

7.83 E-4 cm/sec

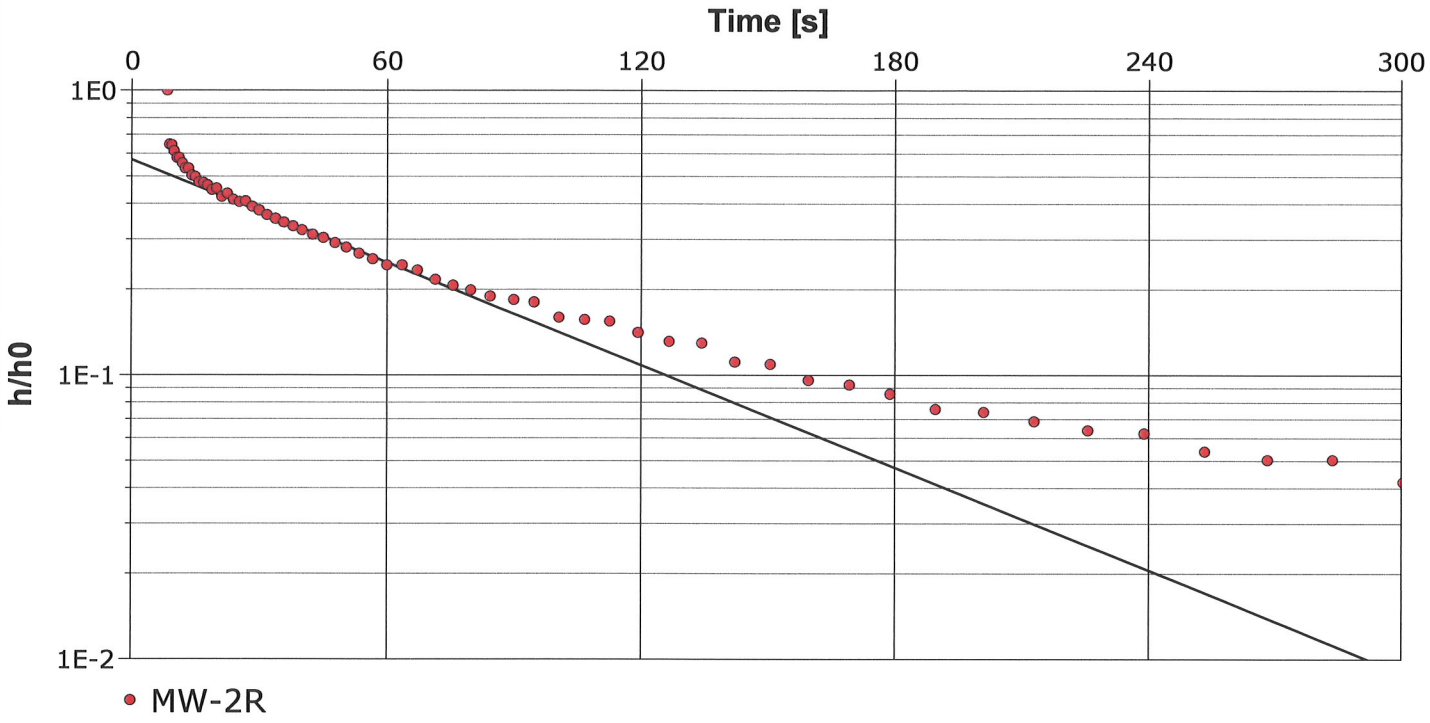
Ayres Associates 5201 E. Terrace Drive, Suite 200 Madison, WI 53718	Slug Test Analysis Report
	Project: University Avenue
	Number: 19-0598.00
	Client: Lindholm Properties

Location: Madison, WI	Slug Test: MW-2R Slug In	Test Well: MW-2R
Test Conducted by: Jeff Steiner		Test Date: 1/24/2017
Analysis Performed by: Jeff Steiner	MW-2R Slug In Time - Drawdwon	Analysis Date: 2/1/2017
Aquifer Thickness: 10.00 ft		



Ayres Associates 5201 E. Terrace Drive, Suite 200 Madison, WI 53718	Slug Test Analysis Report
	Project: University Avenue
	Number: 19-0598.00
	Client: Lindholm Properties

Location: Madison, WI	Slug Test: MW-2R Slug In	Test Well: MW-2R
Test Conducted by: Jeff Steiner		Test Date: 1/24/2017
Analysis Performed by: Jeff Steiner	MW-2R Slug In Bouwer & Rice	Analysis Date: 2/1/2017
Aquifer Thickness: 10.00 ft		



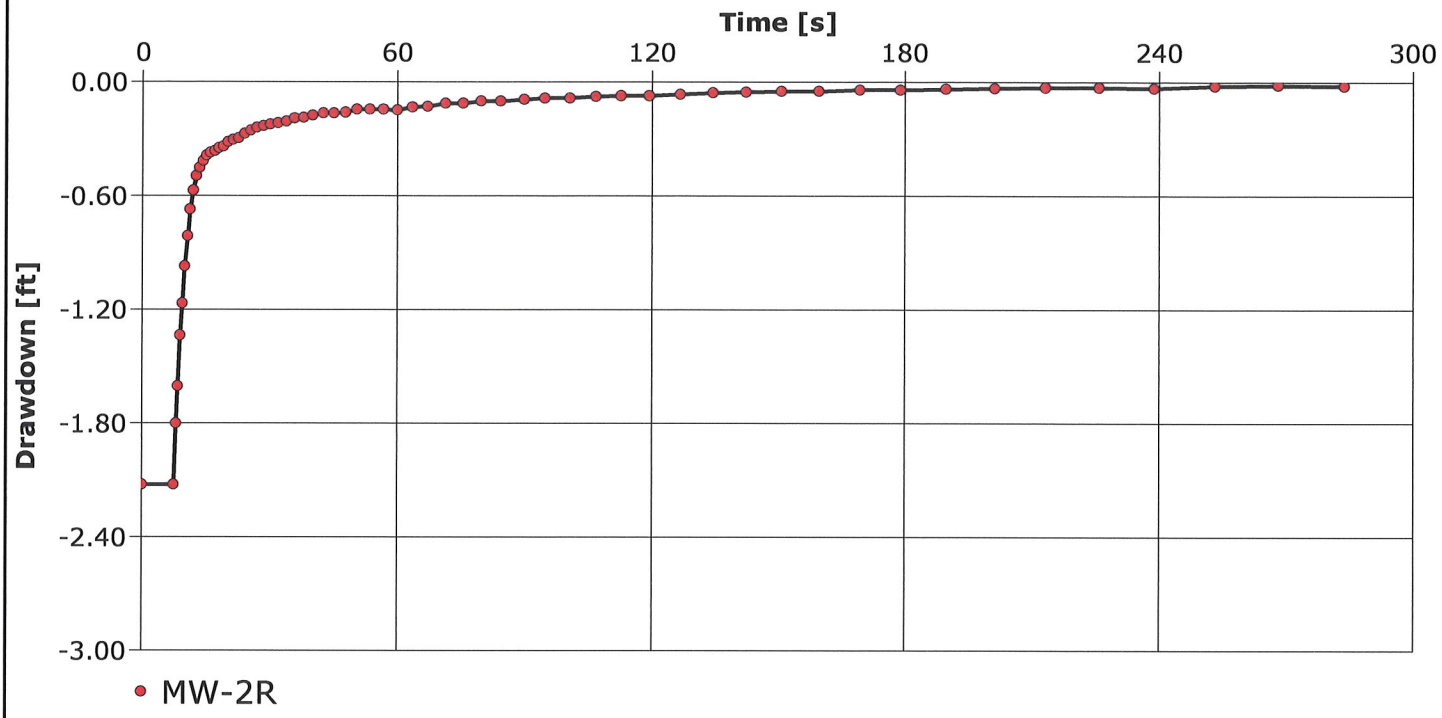
Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity [ft/s]	
MW-2R	2.48×10^{-5}	

7.55 E-4 cm/sec

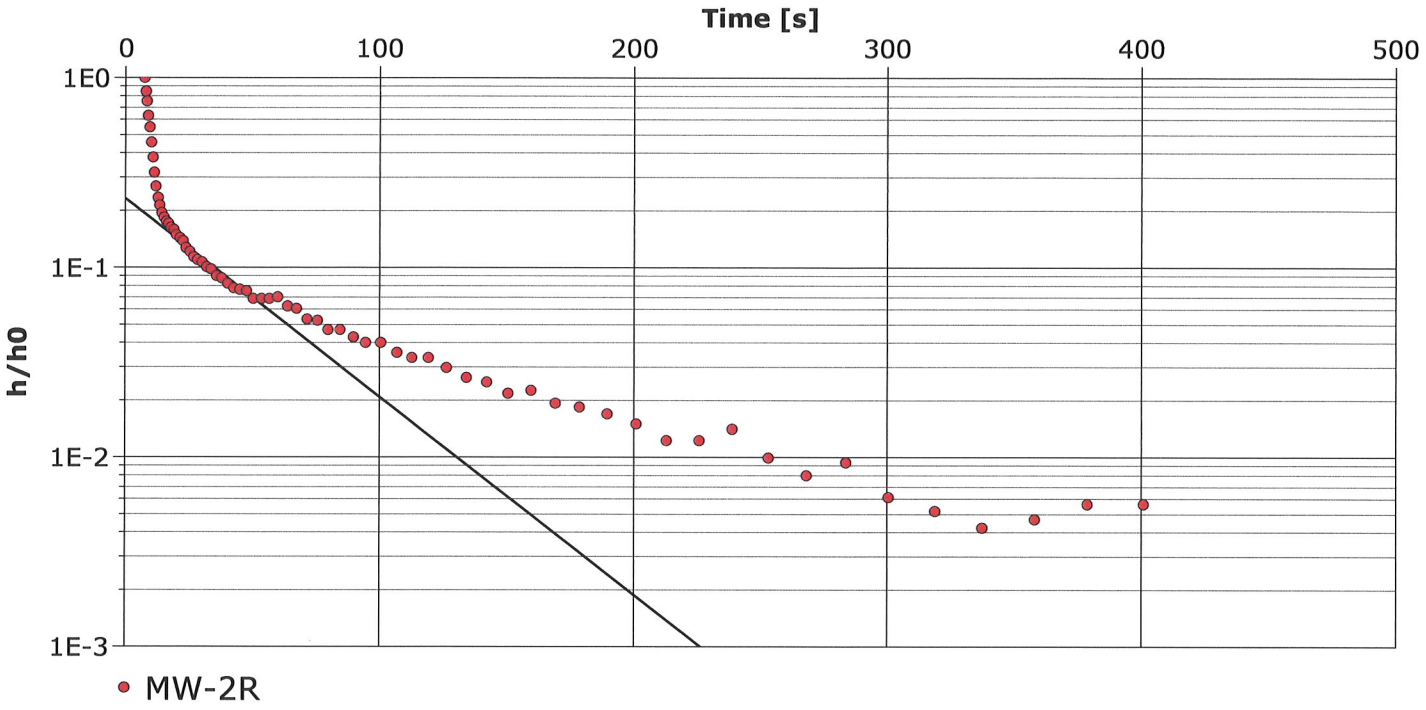
Ayres Associates 5201 E. Terrace Drive, Suite 200 Madison, WI 53718	Slug Test Analysis Report
	Project: University Avenue
	Number: 19-0598.00
	Client: Lindholm Properties

Location: Madison, WI	Slug Test: MW-2R Slug Out	Test Well: MW-2R
Test Conducted by: Jeff Steiner		Test Date: 1/24/2017
Analysis Performed by: Jeff Steiner	MW-2R Slug Out Time-Drawdown	Analysis Date: 2/1/2017
Aquifer Thickness: 10.00 ft		



Ayres Associates 5201 E. Terrace Drive, Suite 200 Madison, WI 53718	Slug Test Analysis Report
	Project: University Avenue
	Number: 19-0598.00
	Client: Lindholm Properties

Location: Madison, WI	Slug Test: MW-2R Slug Out	Test Well: MW-2R
Test Conducted by: Jeff Steiner		Test Date: 1/24/2017
Analysis Performed by: Jeff Steiner	MW-2R Slug Out Bouwer & Rice	Analysis Date: 2/1/2017
Aquifer Thickness: 10.00 ft		



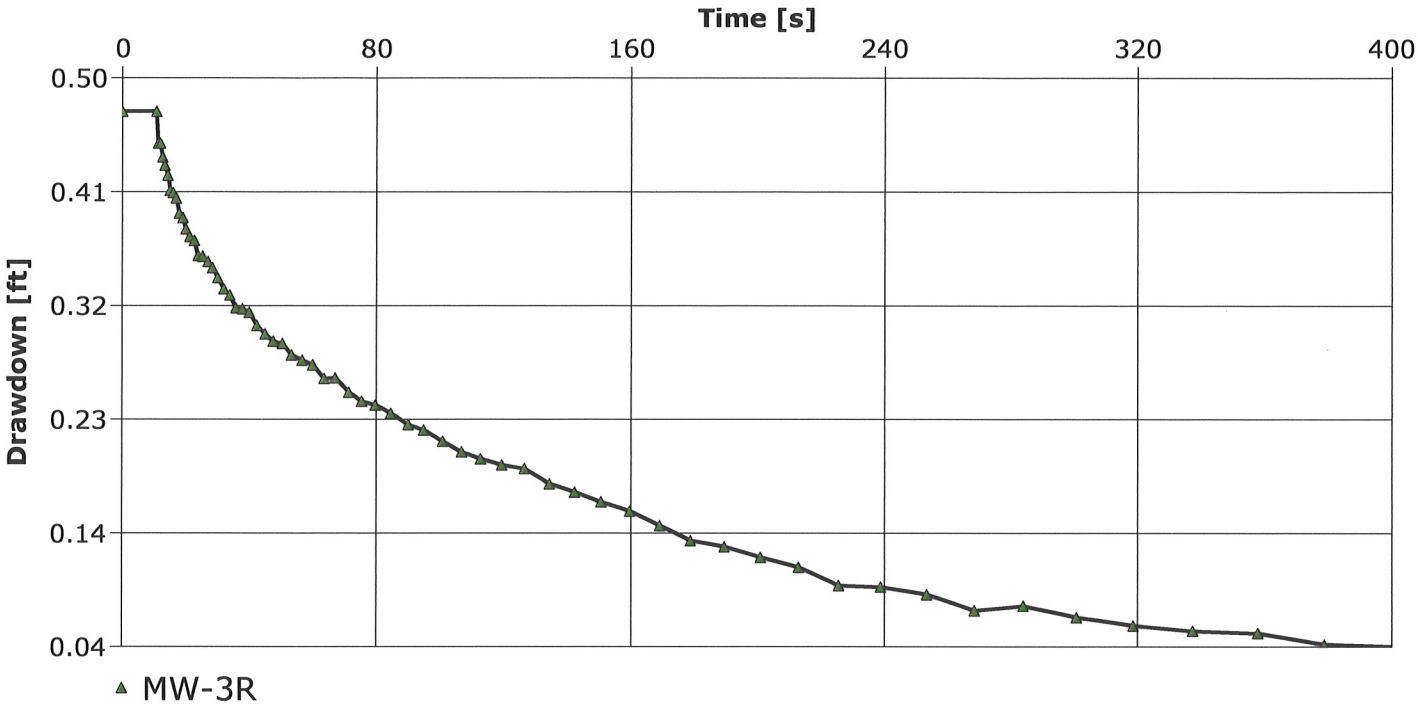
Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity [ft/s]	
MW-2R	4.31×10^{-5}	

1.31 E-3 cm/sec

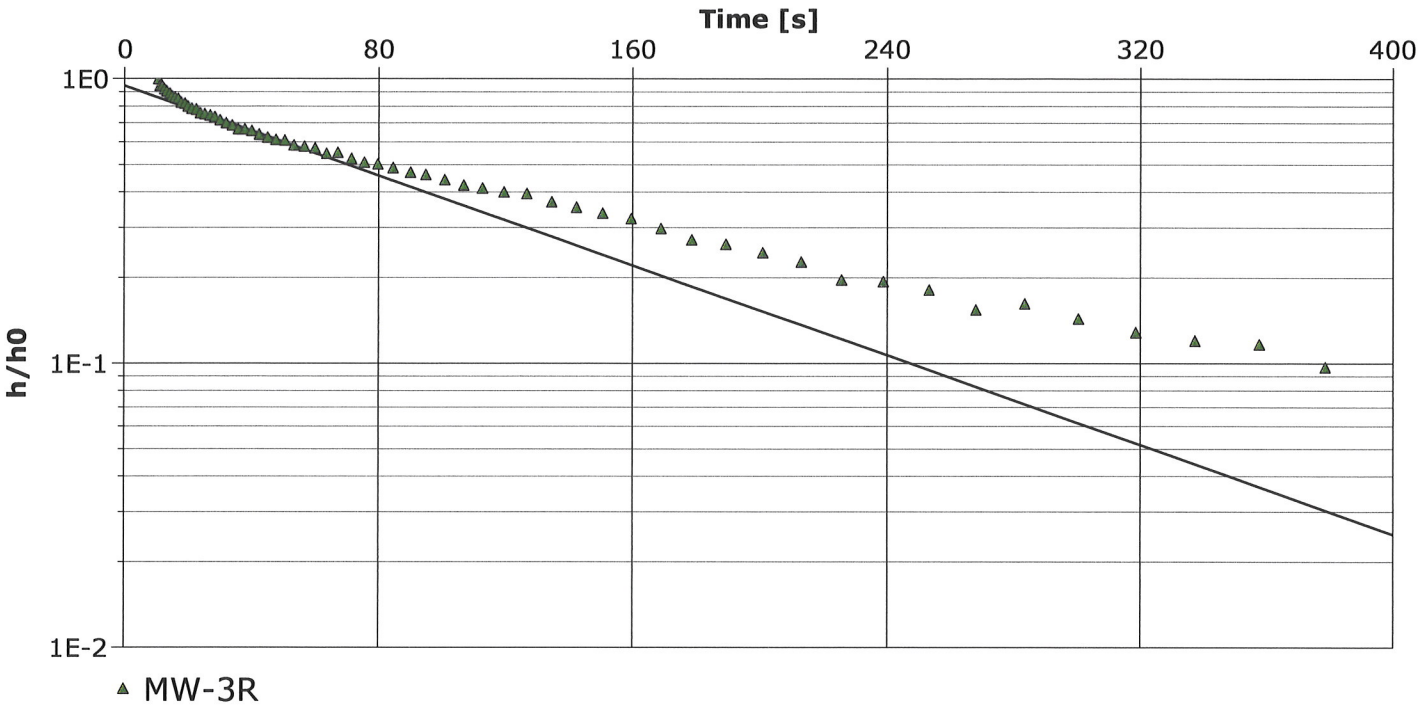
Ayres Associates 5201 E. Terrace Drive, Suite 200 Madison, WI 53718	Slug Test Analysis Report
	Project: University Avenue
	Number: 19-0598.00
	Client: Lindholm Properties

Location: Madison, WI	Slug Test: MW-3R Slug In	Test Well: MW-3R
Test Conducted by: Jeff Steiner		Test Date: 1/24/2017
Analysis Performed by: Jeff Steiner	MW-3R Slug In Time-Drawdown	Analysis Date: 2/1/2017
Aquifer Thickness: 10.00 ft		



Ayres Associates 5201 E. Terrace Drive, Suite 200 Madison, WI 53718	Slug Test Analysis Report
	Project: University Avenue
	Number: 19-0598.00
	Client: Lindholm Properties

Location: Madison, WI	Slug Test: MW-3R Slug In	Test Well: MW-3R
Test Conducted by: Jeff Steiner		Test Date: 1/24/2017
Analysis Performed by: Jeff Steiner	MW-3R Slug In Bouwer & Rice	Analysis Date: 2/1/2017
Aquifer Thickness: 10.00 ft		



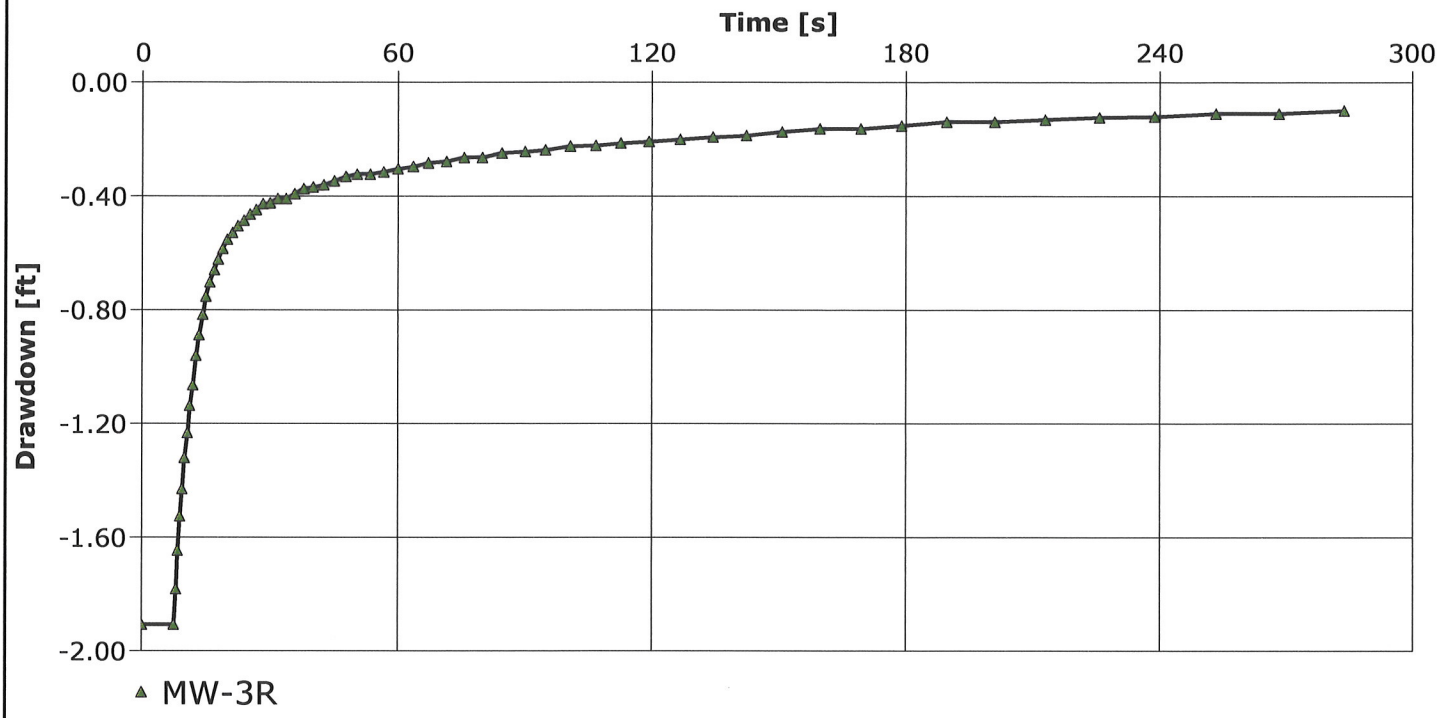
Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity [ft/s]	
MW-3R	1.63×10^{-5}	

4.96 E-4 cm/sec

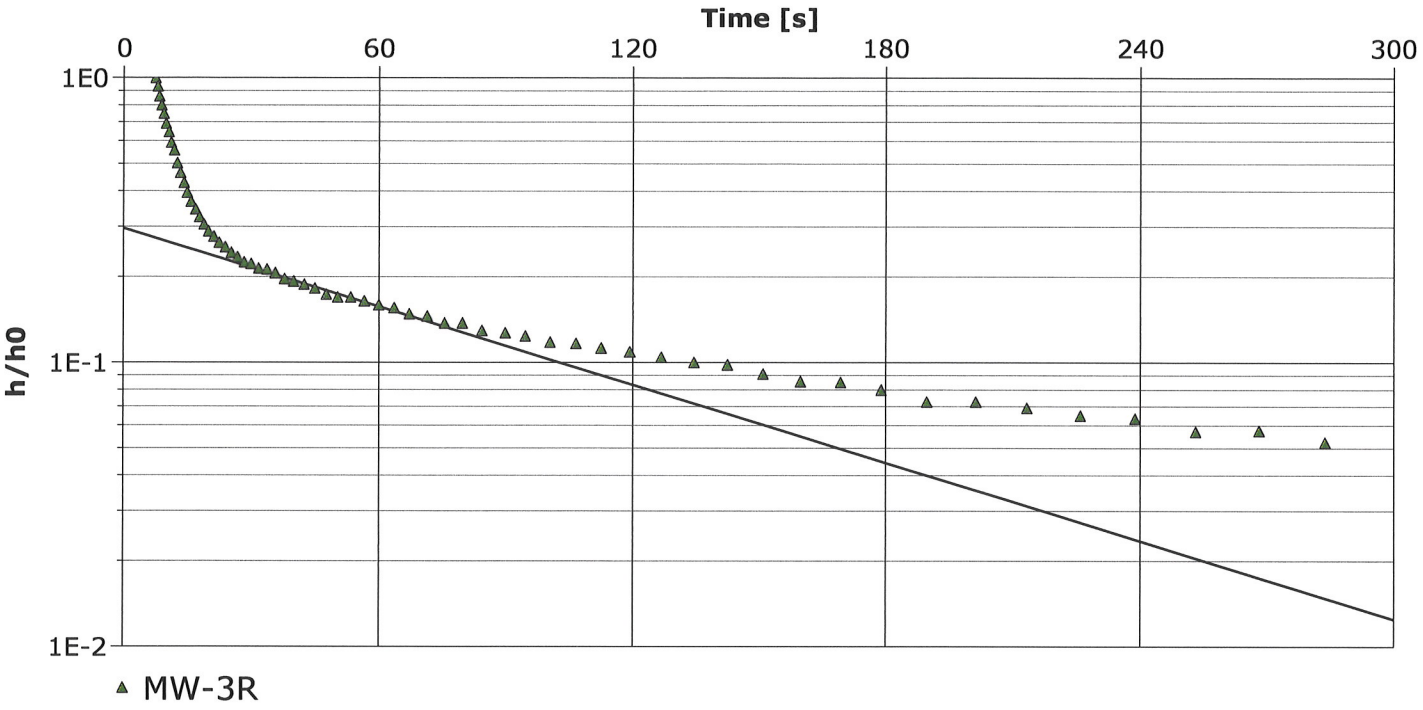
Ayres Associates 5201 E. Terrace Drive, Suite 200 Madison, WI 53718	Slug Test Analysis Report
	Project: University Avenue
	Number: 19-0598.00
	Client: Lindholm Properties

Location: Madison, WI	Slug Test: MW-3R Slug Out	Test Well: MW-3R
Test Conducted by: Jeff Steiner		Test Date: 1/24/2017
Analysis Performed by: Jeff Steiner	MW-3R Slug Out Time-Drawdown	Analysis Date: 2/1/2017
Aquifer Thickness: 10.00 ft		



Ayres Associates 5201 E. Terrace Drive, Suite 200 Madison, WI 53718	Slug Test Analysis Report
	Project: University Avenue
	Number: 19-0598.00
	Client: Lindholm Properties

Location: Madison, WI	Slug Test: MW-3R Slug Out	Test Well: MW-3R
Test Conducted by: Jeff Steiner		Test Date: 1/24/2017
Analysis Performed by: Jeff Steiner	MW-3R Slug Out Bouwer & Rice	Analysis Date: 2/1/2017
Aquifer Thickness: 10.00 ft		



Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity [ft/s]	
MW-3R	1.89×10^{-5}	

5.76 E-4 cm/sec