AECOM
1555 N. River Center Drive, Suite 214
Milwaukee, Wisconsin 53212

414-944-6080 tel
414-944-6081 fax

March 16, 2017

Mr. Tom Coogan
Wisconsin Department of Natural Resources
101 South Webster Street – RR/5
P.O. Box 7921
Madison, Wisconsin 53707-7921

Mr. Jeff Ackerman
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711

Subject: Limited Phase II Environmental Site Assessment Data Report at Five Parcels within the Monona Riverfront Redevelopment Site, Monona, Wisconsin; WDNR File Ref: WCS-067 – AECOM Project No. 60517316

Dear Mr. Coogan and Mr. Ackerman:

AECOM Technical Services, Inc. (AECOM) is providing the results of limited Phase II Environmental Site Assessment (ESA) activities conducted under the Wisconsin Assessment Monies (WAM) Contractor Services Project in general conformance with the approved Sampling and Analysis Plan dated October 10, 2016 and authorized on November 7, 2016. The Phase II ESAs consisted of the installation of four temporary monitoring wells for the collection of vapor and groundwater samples and the installation of two monitoring well/piezometer well pairs to aid in the evaluation of the off-site extent of groundwater impacts associated with a former dry cleaner located within the Riverfront redevelopment area. AECOM was contracted to provide a data report only without data evaluation.

Introduction

Five parcels are included in the Monona Riverfront Redevelopment site in the immediately vicinity of a former dry cleaning facility which has a known release of tetrachloroethene (PCE). The five parcels are:

1. Parcel 1 (900 W Broadway, Monona, WI), currently vacant, formerly a restaurant;
2. Parcel 2 (6321 Metropolitan Lane, Monona, WI), currently vacant, used for boat storage and repair, contains a single steel-sided building maintenance/storage shed, with the surrounding area unpaved;
3. Parcel 3 (6416 Bridge Road, Monona, WI), currently a small multi-tenant building, occupied by a bar with paved parking on three sides of the building;
4. Parcel 4 (802 W Broadway, Monona, WI), currently occupied by Chase Bank, contains a multi-story commercial office building and bank which is surrounded by paved and landscaped areas; and
5. Parcel 5 (6320 Metropolitan Lane, Monona, WI), currently occupied by Inland Boat Works (boat sales and maintenance), mostly covered by building.

The Monona Riverfront Redevelopment site is relatively flat and is located in the Yahara River watershed. The Yahara River watershed includes a chain of four lakes and flows southward and eventually joins the Rock River. The five subject parcels are located west of the Yahara River which forms the eastern boundary of the Riverfront Redevelopment Site. The Lake Monona outlet to the Yahara River at Squaw Bay is approximately ¼ mile north-northeast of the subject parcels. A nominal one-square mile area of wetlands is present to the south of the subject parcels. The location of the redevelopment site is shown in Figure 1, a topographic map, and the parcel layouts are shown in Figure 2.

Scope

The limited Phase II ESA included:

- the collection of subsurface vapor and groundwater samples from four temporary wells installed in four parcels (Parcel 1, 3, 4 and 5);
- the installation of two monitoring well pairs (one water table monitoring well and one piezometer) on Parcels 1 and 3; and
- the performance of two groundwater sampling events conducted approximately one month apart.

The temporary wells, groundwater monitoring wells and piezometer locations are depicted in Figure 3.

Sampling Procedures

Temporary Well Installation, Groundwater Sample and Subsurface Vapor Sample Collection

Four temporary monitoring wells (TW-1 through TW-4) were installed on December 12, 2016 to a depth of 15 feet below ground surface (bgs) each in the locations depicted on Figure 3. Each soil boring for the temporary well was advanced using a soil probe rig with a macro-core sampler (2-inch diameter). The soil was logged and screened with a photoionization detector (PID). The soils were described and recorded on the WDNR soil boring log form 4400-122 and the PID readings were also recorded on the borelog. One-inch PVC was installed as a temporary well with a 10-foot long screen completed with the center of the screen at the top of the apparent water table so the well could be used to sample both groundwater and subsurface vapor. The temporary wells were filter packed to the top of the screen and the remaining annular space was backfilled with granular bentonite that was then hydrated to seal the borehole. Approximately one gallon of water was removed from the temporary wells prior to sampling to remove some of the silt and sand within the well casing. The temporary wells were then sampled using the peristaltic pump and low-flow procedures. Groundwater samples were analyzed at Pace Analytical for VOCs by method SW-846 8260.

After the groundwater sample was collected, the temporary well was sealed with a tight-fitting slip cap that included a sample valve. The subsurface vapor was permitted to equilibrate overnight before the subsurface vapor was sampled on December 13, 2016. A vapor sample was collected from each temporary well in the same order the groundwater samples were collected.

The vapor sampling was conducted on a day of sub-zero temperatures when the surrounding ground was frozen. A water dam method consisting of ponded water on hydrated bentonite around each temporary well was used to mitigate air leakage adjacent to the well casing.

One 6-liter Summa canister (with integrated valve) fitted with a two-micron particulate filter, a vacuum gauge and associated fittings was used at each soil vapor sampling location. The initial vacuum of the Summa canister was verified by removing the canister cap and connecting the canister to the vacuum gauge. Confirming the canister valve was closed, the canister cap was removed and a T-fitting was used to connect the temporary well to the Summa canister. A portable vacuum pump with an in-line valve was attached on the pump end of the T-fitting, between the canister and the pump. The fittings were confirmed to be secure and tight (by attempting to draw air). Then, the valve was opened and an appropriate volume of dead air (approximately four volumes of the length of open pipe) was purged from the temporary well and tubing.

When the purge was complete, the Summa canister valve was opened and the canister was set to extract a vapor sample from the temporary well. The canister valve is a flow controller and filling the canister required approximately 30 minutes. When sample collection was complete the canister valve was closed and the canister was disconnected from the pump. The Summa canisters were submitted to Pace Analytical for analysis of VOCs using United States Environmental Protection Agency Method TO-15. The temporary wells were abandoned after the subsurface vapor samples were collected.

NR 141-Compliant Monitoring Wells and Piezometers Installation

Two well pairs (MW-4/PZ-4 and MW-5/PZ-5) consisting of one water table well and one piezometer were installed on December 13 and 14, 2016 in general conformance with Wisconsin Administrative Code (WAC) chapter NR 141. Soil samples were collected from each piezometer boring of the well pair using a soil probe rig with a macro-core sampler (2-inch diameter). The soil was logged and screened with a photoionization detector (PID). The soils were described and recorded on the WDNR soil boring log form 4400-122 and the PID readings were also recorded on the borelog. The monitoring well soil borings as part of a well pair were blind drilled because the monitoring well and piezometer were located adjacent to each other.

Soil samples were described and visually classified in general conformance with the unified soil classification system. The soil samples were described with respect to the soil type, grain size distribution, and color (or discoloration), odor, and moisture content. The PID was calibrated in the field according to manufacturer's instructions, using 100 parts per million (ppm) isobutylene span gas and air (zero gas). The meter was also checked between each screening event for proper response.

The boreholes for the well installations were advanced by a hollow stem auger over-drilling the soil probe location for the piezometers and blind drilling for the monitoring wells. The water table wells were drilled to a depth of 15.5 to 16 feet bgs and completed with 10-foot long well screens. The piezometers were drilled to 50 feet and have a 5-foot long screen with a screened interval from 45 to 50 feet bgs. The monitoring wells and piezometers were completed as flush-mounted wells. WDNR boring log (4400-122) and well construction forms (4400-113A) were completed for each monitoring well and piezometer. The monitoring wells and piezometers were developed in general conformance with NR 141 on December 13, December 14 and December 30, 2016. The WDNR boring logs, well construction and well development forms (4400-113B) were completed and are attached to this letter report.

Monitoring Well Survey

The new monitoring wells and piezometers and the three existing monitoring wells at the adjacent former dry cleaner site (6418 Bridge Road) were surveyed for state plane coordinate locations and mean sea level elevations (NGVD29) using standard surveying techniques on January 12, 2017.

Waste Characterization Soil Sampling

One composite soil sample was prepared using soil from each of the borings. The soil sample was submitted to Pace Analytical and analyzed for waste characterization parameters. The sample results were used for investigative waste disposal. The results are included in a Pace Analytical report attached to this letter.

Groundwater Sampling

Groundwater samples were collected from each of the water table monitoring wells (both new [MW-4 and MW-5] and existing [MW-1, MW-2 and MW-3]) and piezometers (PZ-4 and PZ-5) using low-flow purge and sample techniques. The monitoring wells and piezometers were sampled on January 9, 2017, approximately two weeks after the new wells were developed. A second groundwater sample event was conducted approximately one month later on February 2, 2017.

Depth to water was measured prior to purging and sampling. The wells/piezometers were purged using a peristaltic pump at a low-flow setting, until approximately three well volumes were removed from the well, or until the field parameters stabilized. Groundwater samples were collected with a peristaltic pump and new tubing was used at each well. One well pair, MW-5 and PZ-5, during the February 2, 2017 sampling event had been covered by snow plowed from the parking lot and were inaccessible. The wells were uncovered on February 8, 2017 and were sampled using a bailer. Groundwater samples were placed in laboratory-supplied sample VOA vials. Field parameters (pH, conductivity, oxygen reducing potential, dissolved oxygen, and temperature) were measured during low-flow well purging.

A chain-of-custody (COC) form was completed for each sample event. Groundwater samples were analyzed at Pace Analytical for VOCs by method SW-846 8260.

Investigative Waste Management

Excess soil generated during the advancement of the soil borings was placed into 55-gallon drums that were temporarily staged on-site until the analytical results from testing were available. Similarly, water generated from well development and pre-sample purging was also placed in 55-gallon drums. Investigation-derived waste was managed by Future Environmental and has been removed from the project site. A copy of the disposal manifest is attached.

Results

The results of the vapor and groundwater sampling are provided on the following tables:

- Table 1 Subsurface Vapor Analytical Summary – The results are compared to May 2016 EPA Regional Screening Level Tables
- Table 2 Groundwater Measurements and Elevations – The results of the survey are shown for each NR141-compliant well and the 2013 data was included for existing wells MW-1, MW-2 and MW-3.
- Table 3 Detected Volatile Organic Compounds in Groundwater from Temporary Wells – the data was compared to NR 140.10 Groundwater Quality Enforcement Standards and Preventive Action Limits.
- Table 4 Detected Volatile Organic Compounds in Groundwater from Monitoring Wells and Piezometers – the data was compared to NR 140.10 Groundwater Quality Enforcement Standards and Preventive Action Limits.
- Table 5 Field-Measured Groundwater Parameters.

Subsurface vapor concentrations did not exceed the risk screening levels in the four samples collected. Groundwater quality exceedances occurred in the groundwater samples from the location listed below.

Enforcement standard exceedances
Tetrachloroethene: MW-3, PZ-4 and temporary wells TW-1 and TW-2

Preventive action limit exceedances
Tetrachloroethene: MW-1 and MW-2
Trichloroethene: MW-3 and PZ-4 (January only)
Cis-1,2-dichloroethene: temporary well TW-2
Naphthalene: temporary well TW-2

The following figures depict the site location, the site layout, the sampling locations and the results of the Phase II ESA.

- Figure 1 – Site Location
- Figure 2 – Parcel Location
- Figure 3 – Sample Locations
- Figure 4 – Groundwater Flow January 2017
- Figure 5 – Groundwater Flow February 2017
- Figure 6 – Groundwater Quality Exceedances

Please contact us if you have any questions or comments regarding this letter.

Yours sincerely,

AECOM Technical Services, Inc.

Lanette Altenbach, P.G., CPG
Project Manager/Senior Hydrogeologist
lanette.altenbach@aecom.com

Richard Mazurkiewicz
Geologist
richard.mazurkiewicz@aecom.com

Attachments:

- Table 1 – Subsurface Vapor Analytical Summary
- Table 2 – Groundwater Measurements and Elevations
- Table 3 – Detected Volatile Organic Compounds in Groundwater from Temporary Wells
- Table 4 – Detected Volatile Organic Compounds in Groundwater from NR141-Compliant Monitoring Wells and Piezometers
- Table 5 – Field-Measured Groundwater Parameters
- Figure 1 – Site Location Map
- Figure 2 – Parcel Location Map
- Figure 3 – Sample Location Map
- Figure 4 – Groundwater Flow January 2017
- Figure 5 – Groundwater Flow February 2017
- Figure 6 – Groundwater Quality Exceedances

- Soil Boring Logs WDNR Form 4400-122
- Borehole Filling & Sealing WDNR Form 3300-5
- Monitoring Well Construction & Development WDNR Form 113A & B

- Pace Analytical Reports
  - Pace Project #10373675 – Subsurface Vapor Results
  - Pace Project #40143613 – Temporary Well Groundwater Sample Results & Soil Waste Characterization Sample
  - Pace Project #40144330 – January 9, 2017 Groundwater Water Results (includes composite sample for disposal)
  - Pace Project #40145224 – February 2, 2017 Groundwater Results
  - Pace Project #40145550 – February 9, 2017 Groundwater Results

Tables

Table 1
Subsurface Vapor Analytical Summary
Monona Riverfront Redevelopment Property
6418 Bridge Road, Monona, Wisconsin

					Vapor Risk Screening Levels		
Sample ID	**TW-1**	**TW-2**	**TW-3**	**TW-4**	**Residential** WDNR Screening Level[2] (Target Sub-Slab and Exterior Soil Gas Concentration[4]) in µg/m^3 (Attenuation Factor = 0.03)	**Small Commercial** WDNR Screening Level[2] (Target Sub-Slab and Exterior Soil Gas Concentration[4]) in µg/m^3 (Attenuation Factor = 0.03)	**Large Commercial or Industrial** WDNR Screening Level[2] (Target Sub-Slab and Exterior Soil Gas Concentration[4]) in µg/m^3 (Attenuation Factor = 0.03)
Sample Date	12/13/2016	12/13/2016	12/13/2016	12/13/2016			
Analyte[1] VOCs (µg/m3)							
Acetone	32.9	268	9.2	103	1,100,000	4,700,000	14,000,000
Benzene	12.0	12.9	5.4	10.7	120	530	1,600
2-Butanone (MEK)	10.7	23.8	2.8J	35.2	170,000	730,000	2,200,000
Carbon disulfide	17.7	4.7	3.1	45.2	24,000	100,000	310,000
Carbon tetrachloride	0.95J	<0.29	0.72J	0.81J	160	670	2,000
Chloroform	<0.24	<0.28	0.60J	<0.27	40	180	530
Cyclohexane	36.1	21.0	10.6	26.7	210,000	870,000	2,600,000
1,4-Dichlorobenzene	1.4J	4.9	<0.63	2.8	87	370	1,100
Dichlorodifluoromethane	2.2	2.0	2.1	1.0J	3,300	15,000	44,000
cis-1,2-Dichloroethene	<0.31	4.4	<0.31	<0.35	NE	NE	NE
Ethanol	29.8	8.8	3.4	6.7	NE	NE	NE
Ethyl acetate	1.3	<0.52	<0.44	0.57J	2,400	10,000	31,000
Ethylbenzene	3.8	27.8	3.5	41.9	370	1,600	4,900
4-Ethyltoluene	1.0J	14.1	0.94J	2.2	NE	NE	NE
n-Heptane	13.3	12.4	11.6	18.6	NE	NE	NE
n-Hexane	39.0	31.0	18.8	451	24,000	100,000	310,000
2-Hexanone	1.1J	7.2	0.79J	<0.59	1,000	4,300	13,000
Methylene Chloride	3.4J	12.3	1.7J	18.8	21,000	87,000	260,000
4-Methyl-2-pentanone (MIBK)	1.3J	2.4J	0.59J	2.3J	100,000	430,000	1,300,000
Naphthalene	<0.38	8.4	<0.38	3.2J	28	120	360
2-Propanol	<0.30	5.2	5.6	5.5	7,000	29,000	88,000
Propylene	203	76.8	<0.17	432	100,000	430,000	1,300,000
Tetrachloroethene	10.8	29.1	<0.35	0.53J	1,400	6,000	18,000
Toluene	25.5	47.4	18.9	104	170,000	730,000	2,200,000
Trichloroethene	<0.35	0.87	<0.35	<0.40	70	290	880
Trichlorofluoromethane	20.5	1.1J	0.95J	<0.19	NE	NE	NE
1,1,2-Trichlorotrifluoroethane	0.52J	<0.45	<0.38	<0.43	1,000,000	4,300,000	13,000,000
1,2,4-Trimethylbenzene	2.1	35.9	2.7	5.1	240	1,000	3,100
1,3,5-Trimethylbenzene	0.81J	14.9	0.93J	1.7	NE	NE	NE
Vinyl acetate	<0.42	6.0	<0.42	<0.48	7,000	29,000	88,000
m&p-Xylene	8.0	37.9	3.4	114	3,300	15,000	44,000
o-Xylene	2.7	11.9	1.1	36.6	3,300	15,000	44,000

VOCs = Volatile Organic Compounds. NE = No established standard µg/m^3 = micrograms per cubic meter

[1] Only Detected Compounds Are Shown. J = Estimated concentration at or above the Limit of Detection and below the Limit of Quantitation.

[2] Indoor Air Vapor Action Levels and Vapor Risk Screening Levels, based on May 2016 USEPA Regional Screening Level Tables (www.epa.gov/risk/risk-based-screening-table-generic-

[4] EPA Office of Solid Waste and Emergency Response (OWSER) Vapor Intrusion Screening Level (VISL) Calculator, Version 3.4, November 2015 Regional Screening Levels.

Table 2
Groundwater Measurements and Elevations
Monona Riverfront Redevelopment Property
6418 Bridge Road, Monona, Wisconsin

Well Number	MW-1		MW-2		MW-3		MW-4		PZ-4		MW-5		PZ-5	
Ground Elevation (ft)	859.09		855.31		858.96		855.70		855.70		855.27		855.27	
Top of PVC Casing (TOC) Elevation (ft)	858.69		854.87		858.48		855.35		855.29		855.02		854.74	
Screen Length (ft)	10.0		10.0		10.0		10.0		5.0		10.0		5.0	
TOC to Bottom of Well (ft)[A]	21.08		14.68		19.40		16.3		49.47		15.59		49.30	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
4/15/2013	11.75	846.94	7.34	847.53	12.00	846.48	NI	NI	NI	NI	NI	NI	NI	NI
6/5/2013	11.20	847.49	7.92	846.95	10.95	847.53	NI	NI	NI	NI	NI	NI	NI	NI
7/5/2013	10.46	848.23	6.37	848.5	10.28	848.2	NI	NI	NI	NI	NI	NI	NI	NI
1/9/2017	12.40	846.29	9.27	845.60	12.00	846.48	9.98	845.37	9.90	845.39	9.62	845.40	9.22	845.52
2/2/2017	12.06	846.63	8.92	845.95	10.71	847.77	9.65	845.7	9.55	845.74	NM	under ice	NM	under ice
2/8/2017	12.21	846.48	8.93	845.94	11.91	846.57	9.53	845.82	9.66	845.63	9.32	845.70	8.97	845.77

ft = feet.

GW = Groundwater.

TOC = Well Top-Of-Casing.

[A] = as measured inside well.

NI = Not Installed. NM = Not Measured

-- no elevation.

MW-4, PZ-4, NW-5, and PZ-5 installed by AECOM on 12/12-14/2016.

All well surveyed by AECOM on 1/12/2017. The City of Madison vertical datum of 0.00 for lake level. Elevation of 845.6 plus city elevation = USGS 29 datum. The elevations shown on the table are relative to USGS 29 datum. Project Bench mark used was a WisDOT cap on the southwest corner of bridge B 13 371 89, elevation referenced as 14.75 on previous project.

Table 3
Detected Volatile Organic Compounds in Groundwater from Temporary Monitoring Wells
Monona Riverfront Redevelopment Property
6418 Bridge Road, Monona, Wisconsin

Well Location	Sample Date	n-Butyl benzene (ug/L)	sec-Butyl benzene (ug/L)	Ethyl benzene (ug/L)	Isopropyl benzene (ug/L)	p-Isopropyl toluene (ug/L)	Methyl-tert-butyl-ether (ug/L)	Naphthalene (ug/L)	n-Propyl benzene (ug/L)	Toluene (ug/L)	Trichloro fluoro methane (ug/L)	1,2,4-Trimethyl benzene (ug/L)	1,3,5-Trimethyl benzene (ug/L)	Total Xylenes (ug/L)
TW-1	12/12/16	<0.50	<2.2	<0.50	<0.14	<0.50	<0.17	<2.5	<0.50	<0.50	3.6	<0.50	<0.50	<1.5
TW-2	12/12/16	4.2	3.8J	10.3	4.1	2.4	<0.17	*36.2*	5.5	<0.50	<0.18	23.1	6.9	6.9
TW-3	12/12/16	<0.50	<2.2	<0.5	<0.14	<0.50	<0.17	<2.5	<0.50	<0.50	<0.18	<0.50	<0.50	<1.5
TW-4	12/12/16	<0.50	<2.2	<0.50	<0.14	<0.50	<0.17	<2.5	<0.50	0.60J	<0.18	<0.50	<0.50	<1.5
PAL		NE	NE	140	NE	NE	12	10	NE	160	698	96*	96*	400
ES		NE	NE	700	NE	NE	60	100	NE	800	3490	480*	480*	2,000

Well Location	Sample Date	Chloro ethane (ug/L)	1,1-Dichloro ethane (ug/L)	cis-1,2-Dichloro ethene (ug/L)	trans-1,2-Dichloro ethene (ug/L)	Trichloro ethene (ug/L)	Tetrachloro ethene (ug/L)	1,1,1-Trichloro ethane (ug/L)	Vinyl chloride (ug/L)
TW-1	12/12/16	<0.37	<0.24	<0.26	<0.26	<0.33	**16.4**	<0.50	<0.18
TW-2	12/12/16	<0.37	<0.24	*10.5*	<0.26	<0.33	**49.3**	<0.50	<0.18
TW-3	12/12/16	<0.37	<0.24	<0.26	<0.26	<0.33	<0.50	<0.50	<0.18
TW-4	12/12/16	<0.37	<0.24	<0.26	<0.26	<0.33	<0.50	<0.50	<0.18
PAL		80	85	7	20	0.5	0.5	40	0.02
ES		400	850	70	100	5	5	200	0.2

Detected analytes and select chlorinated VOCs. Full SW-846 VOC scan conducted. For detection limits for VOCs not included on the table see laboratory analytical report.
ug/L = micrograms per lite NE= Not Established * PAL or ES is for total trimethylbenzenes.
PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, July 2015 exceedances are *underlined italics*.
ES - Enforcement Standard, Wisconsin Administrative Code NR 140.10 Table 1, July 2015, exceedances are **bold**.

Table 4
Detected Volatile Organic Compounds in Groundwater from NR 141-Compliant Monitoring Wells and Piezometers
Monona Riverfront Redevelopment Property
6418 Bridge Road, Monona, Wisconsin

Well Location	Sample Date	Chloro-ethane (ug/L)	Dichloro difluoro methane (ug/L)	1,1-Dichloro-ethane (ug/L)	cis-1,2-Dichloro-ethene (ug/L)	trans-1,2-Dichloro-ethene (ug/L)	Methyl-tert-butyl-ether (ug/L)	Trichloro ethene (ug/L)	Tetrachloro ethene (ug/L)	1,1,1-Trichloro ethane (ug/L)	Trichloro fluoro methane (ug/L)	Vinyl chloride (ug/L)
MW-1	1/9/2017	<0.37	0.36J	<0.24	<0.26	<0.26	<0.17	<0.33	*0.99J*	<0.50	<0.18	<0.18
	2/2/2017	<0.37	0.15J	<0.24	<0.26	<0.26	<0.17	<0.33	*0.66J*	<0.50	<0.18	<0.18
MW-2	1/9/2017	<0.37	<0.22	<0.24	<0.26	<0.26	<0.17	<0.33	*1*	<0.50	<0.18	<0.18
	2/2/2017	<0.37	<0.22	<0.24	<0.26	<0.26	<0.17	<0.33	*1.2*	<0.50	<0.18	<0.18
MW-3	1/9/2017	<0.37	<0.22	<0.24	<0.26	<0.26	<0.17	*0.95J*	**93.5**	<0.50	<0.18	<0.18
	2/2/2017	<0.37	<0.22	<0.24	<0.26	<0.26	<0.17	*0.55J*	**69.5**	<0.50	<0.18	<0.18
MW-3 DUP	1/9/2017	<0.37	<0.22	<0.24	<0.26	<0.26	<0.17	*0.74J*	**91.5**	<0.50	<0.18	<0.18
	2/2/2017	<0.37	<0.22	<0.24	<0.26	<0.26	<0.17	*0.69J*	**68.4**	<0.50	<0.18	<0.18
MW-4	1/9/2017	<0.37	<0.22	<0.24	<0.26	<0.26	<0.17	<0.33	<0.50	<0.50	1.7	<0.18
	2/2/2017	<0.37	<0.22	<0.24	<0.26	<0.26	<0.17	<0.33	<0.50	<0.50	2	<0.18
PZ-4	1/9/2017	<0.37	<0.22	<0.24	<0.26	<0.26	1.8	*0.59J*	**10.1**	<0.50	<0.18	<0.18
	2/2/2017	<0.37	<0.22	<0.24	<0.26	<0.26	6.4	<0.33	**8.9**	<0.50	0.62J	<0.18
MW-5	1/9/2017	<0.37	<0.22	<0.24	<0.26	<0.26	<0.17	<0.33	<0.50	<0.50	<0.18	<0.18
	2/8/2017	<0.37	<0.22	<0.24	<0.26	<0.26	<0.17	<0.33	<0.50	<0.50	<0.18	<0.18
PZ-5	1/9/2017	<0.37	<0.22	<0.24	<0.26	<0.26	0.23J	<0.33	<0.50	<0.50	<0.18	<0.18
	2/8/2017	<0.37	<0.22	<0.24	<0.26	<0.26	<0.17	<0.33	<0.50	<0.50	<0.18	<0.18
PAL		80	200	85	7	20	12	0.5	0.5	40	698	0.02
ES		400	1,000	850	70	100	60	5	5	200	3490	0.2

Detected analytes and select chlorinated VOCs shown on table. Full SW-846 VOC scan conducted -see laboratory analytical report for non-detected analytes and detectio

ug/L = micrograms per liter J=estimated concentration between the method detection limit and the reporting limit

PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, February 2004 exceedances are *underlined italics*.

ES - Enforcement Standard, Wisconsin Administrative Code NR 140.10 Table 1, February 2004, exceedances are **bold**.

Table 5
Field-Measured Groundwater Parameters
Monona Riverfront Redevelopment Property
6418 Bridge Road, Monona, Wisconsin

	Sample Date	pH Units	Dissolved Oxygen (mg/l)	ORP (Milivolts)	Conductivity (mS/cm)	Temperature (° Celsius)	Groundwater Elevation (feet msl)
MW-1	**Top of Well Screen in Feet MSL: 847.61**			**Length of Well Screen: 10 ft.**			
	1/9/2017	6.97	2.71	137.1	5.451	11.82	846.29
	2/2/2017	8.48	1.83	17.5	4.277	12.28	846.48
MW-2	**Top of Well Screen in Feet MSL: 849.79**			**Length of Well Screen: 10 ft.**			
	1/9/2017	7.20	2.78	112.5	0.966	9.86	845.60
	2/2/2017	8.66	0.91	-104.6	0.609	9.75	845.94
MW-3	**Top of Well Screen in Feet MSL: 849.08**			**Length of Well Screen: 10 ft.**			
	1/9/2017	6.98	3.95	131.9	1.407	11.99	846.48
	2/2/2017	8.56	3.38	91.3	0.874	11.21	846.57
MW-4	**Top of Well Screen in Feet MSL: 849.58**			**Length of Well Screen: 10 ft.**			
	1/9/2017	6.81	6.35	129.5	0.800	10.46	845.37
	2/2/2017	8.57	4.38	140.3	0.585	10.35	845.82
PZ-4	**Top of Well Screen in Feet MSL: 810.82**			**Length of Well Screen: 5 ft.**			
	1/9/2017	7.15	0.68	105.7	1.277	12.34	845.39
	2/2/2017	8.69	0.74	130.8	0.656	12.45	845.63
MW-5	**Top of Well Screen in Feet MSL: 849.43**			**Length of Well Screen: 10 ft.**			
	1/9/2017	6.60	0.98	87.5	5.675	11.58	845.40
	2/8/2017	NM	NM	NM	NM	NM	845.70
PZ-5	**Top of Well Screen in Feet MSL: 810.44**			**Length of Well Screen: 5 ft.**			
	1/9/2017	6.91	0.82	87.6	4.947	11.94	845.52
	2/8/2017	NM	NM	NM	NM	NM	845.77

Notes:

mg/l = milligrams per liter. NM = Not Measured

ft = feet cm = centimeter

msl = mean sea level mS/cm = Millisiemens per centimeter

Figures

Notes:

1. TOPO map from http://store.usgs.gov
   Madison East quadrangle, dated: 2016

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

Monona Riverfront Redevelopment Site
6418 Bridge Road
Monona, Dane County, WI

SITE LOCATION

Project Number:	Drawn By:	Date:	Figure No. 1
60517316	SAE	8/31/2016	

File: P:\60517316\900_WorkCADD\WAM-Monona.dwg; USER: ENGELHARDT, SARAH; PLOTTED:August 31, 2016 - 12:37 PM

Legend:

- Monona Riverfront Redevelopment Site
- Parcel Boundary

Notes:

1. Aerial photograph from Google Earth Pro; image dated 6/12/2014; downloaded on 8/31/2016.

N

0' 200' 400' 800'

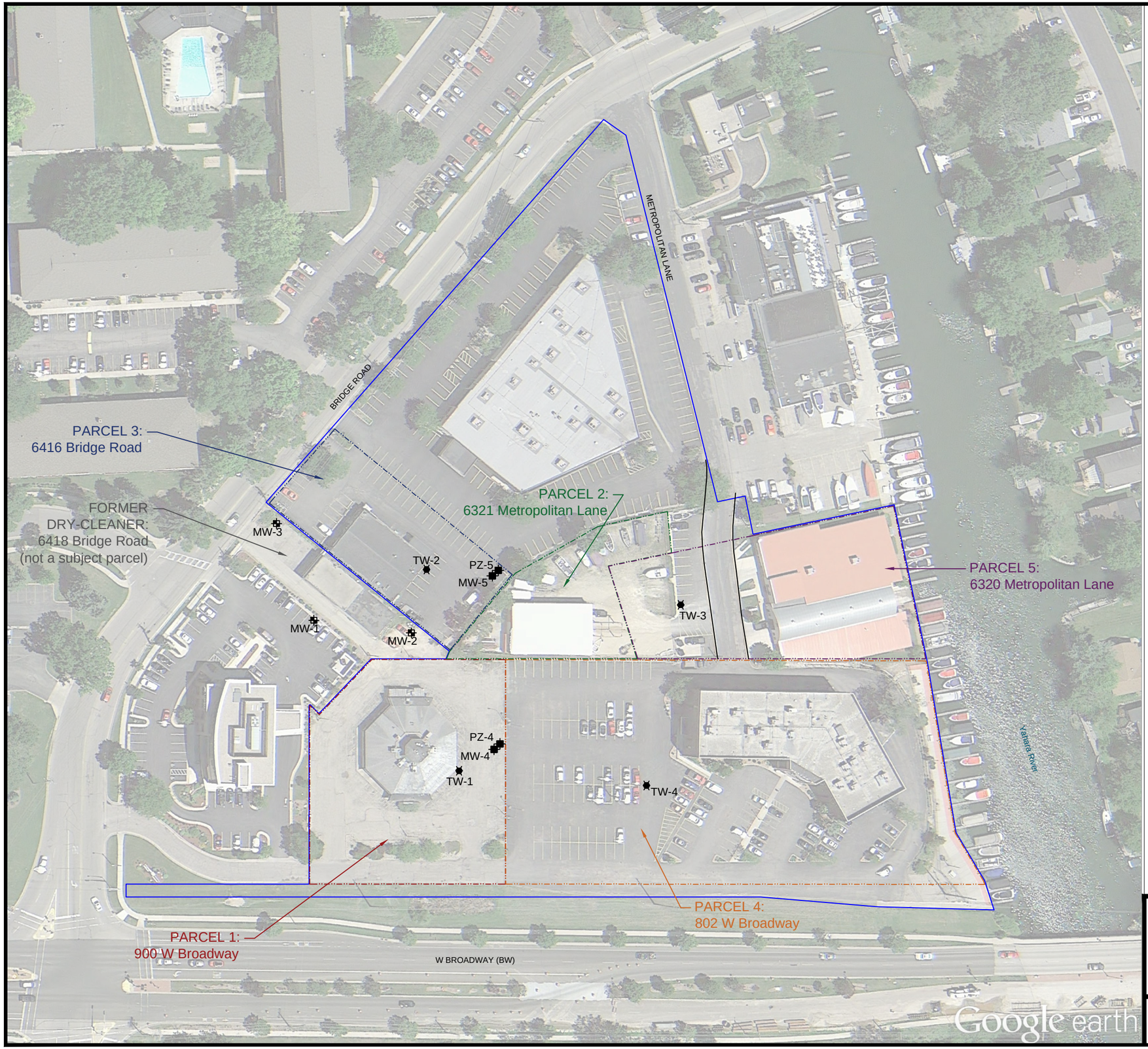
SCALE

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

Monona Riverfront Redevelopment Site
6418 Bridge Road
Monona, Dane County, WI

PARCEL LOCATION

Project Number:	Drawn By:	Date:	Figure No. 2
60517316	SAE	8/31/2016	



Legend:

- Monona Riverfront Redevelopment Site
- Parcel Boundary
- Historic Monitoring Well
- Monitoring Well (MW) / Piezometer (PZ)
- Subsurface Vapor and Grab Groundwater Sampling Location (TW)

Notes:

1. Aerial photograph from Google Earth Pro; image dated 6/12/2014; downloaded on 8/31/2016.

N

0' 50' 100' 200'

SCALE

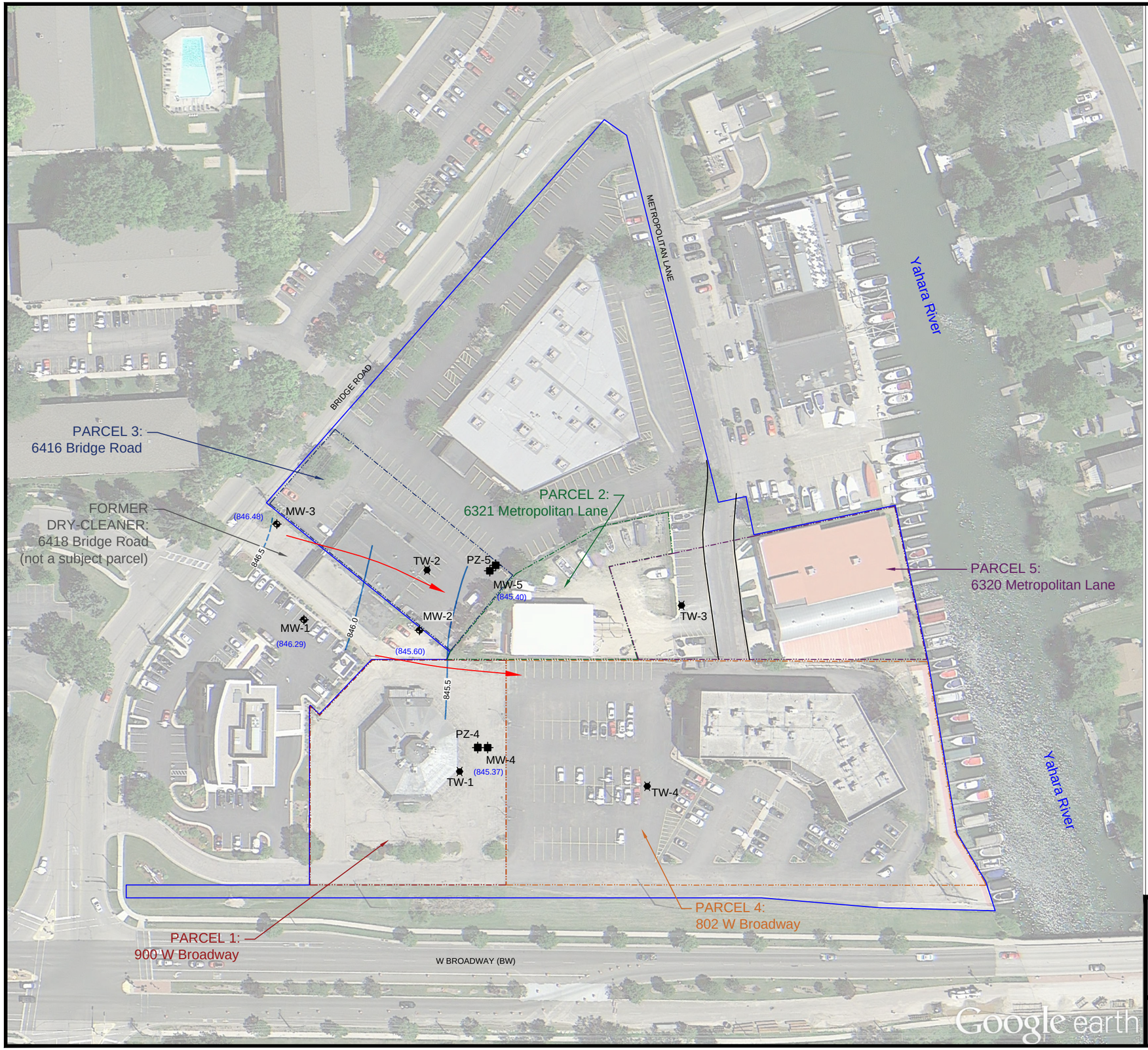
AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

Monona Riverfront Redevelopment Site
6418 Bridge Road
Monona, Dane County, WI

SAMPLE LOCATIONS

Project Number:	Drawn By:	Date:	Figure No. 3
60517316	SAE	10/6/2016	

File: P:\60517316\900_Work\CAD\DWM-Monona.dwg , USER: STOCKER, ALEXANDRA , PLOTTED: February 20, 2017 - 11:08 AM



Legend:

- Monona Riverfront Redevelopment Site
- Parcel Boundary
- Historic Monitoring Well
- Monitoring Well (MW) / Piezometer (PZ)
- Subsurface Vapor and Grab Groundwater Sampling Location (TW)

Notes:

1. Aerial photograph from Google Earth Pro; image dated 6/12/2014; downloaded on 8/31/2016.

(845.60) GROUNDWATER ELEVATION (mean sea level)

845.6 GROUNDWATER CONTOUR (Interval = 0.5 Foot)

GROUNDWATER FLOW DIRECTION
(gradient = 0.005, between monitoring wells MW-3 and MW-5).

N

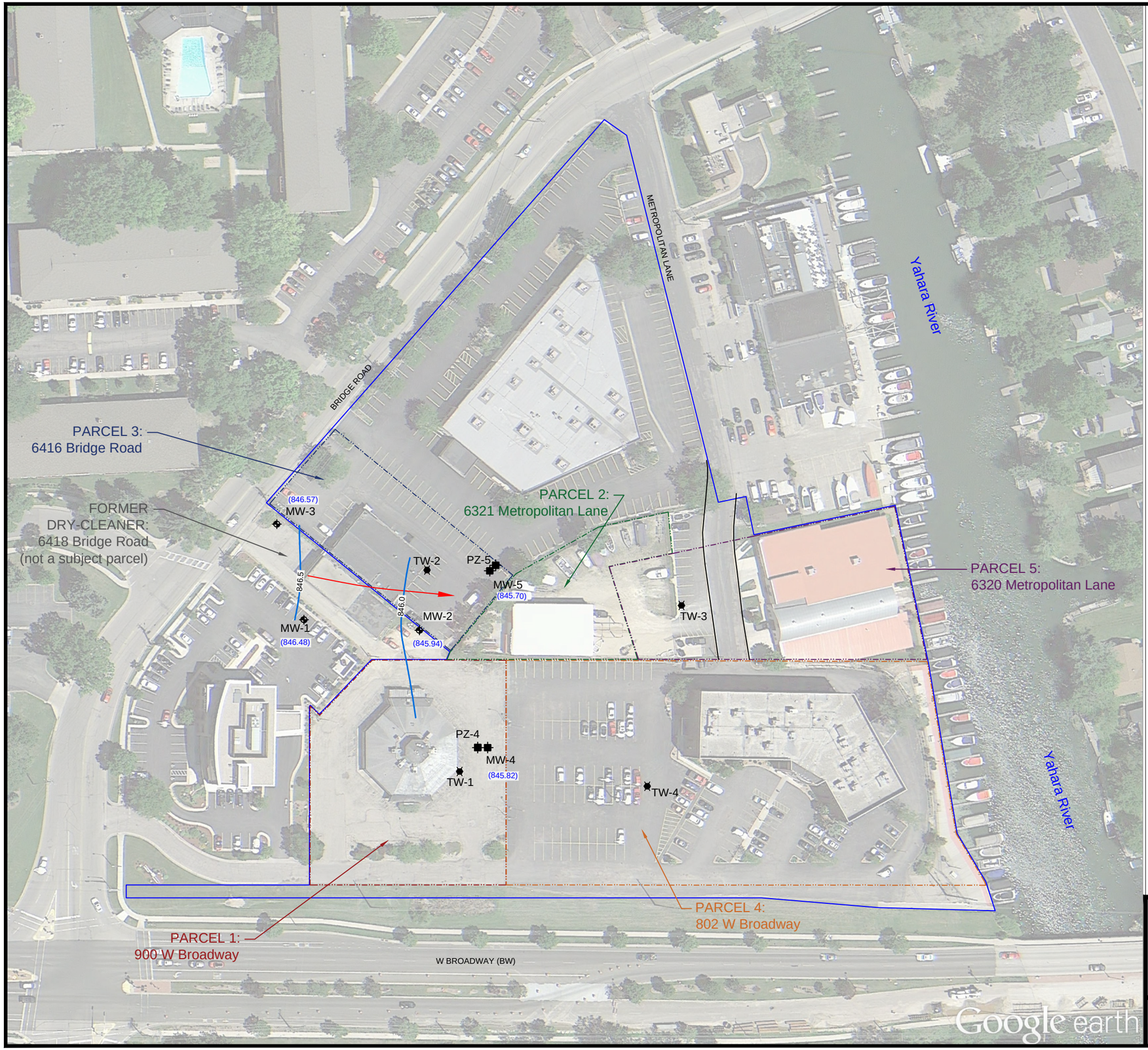
0' 50' 100' 200'
SCALE

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

Monona Riverfront Redevelopment Site
6418 Bridge Road
Monona, Dane County, WI

GROUNDWATER FLOW - JANUARY 9, 2017

Project Number:	Drawn By:	Date:	Figure No. 4
60517316	SAE/RPM/ANS	2/20/2017	



Legend:

- Monona Riverfront Redevelopment Site
- Parcel Boundary
- Historic Monitoring Well
- Monitoring Well (MW) / Piezometer (PZ)
- Subsurface Vapor and Grab Groundwater Sampling Location (TW)

Notes:

1. Aerial photograph from Google Earth Pro; image dated 6/12/2014; downloaded on 8/31/2016.

(845.60) GROUNDWATER ELEVATION (mean sea level)

845.6 GROUNDWATER CONTOUR (Interval = 0.5 Foot)

GROUNDWATER FLOW DIRECTION
(gradient = 0.004, between monitoring wells MW-3 and MW-5).

N

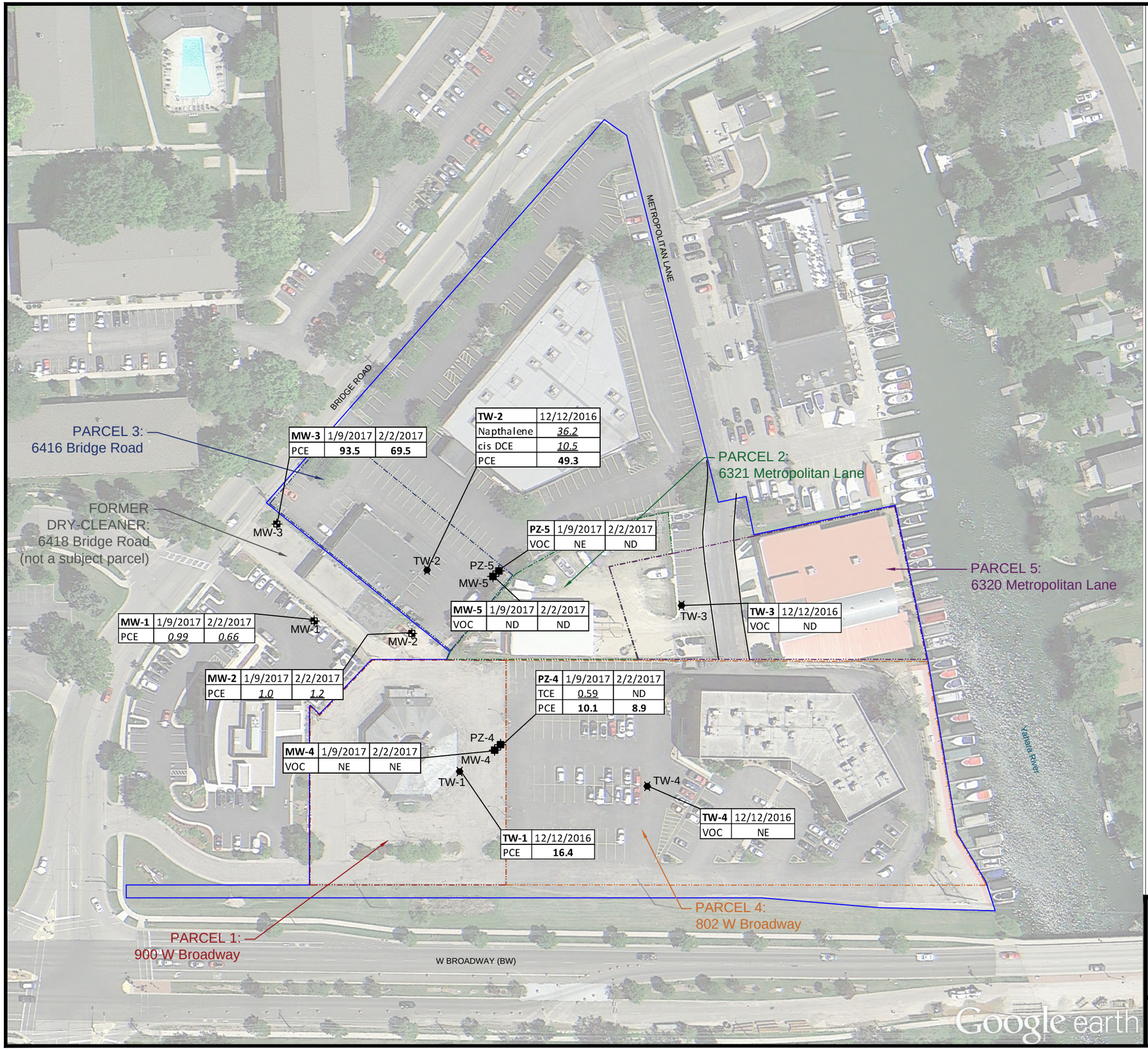
0' 50' 100' 200'
SCALE

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

Monona Riverfront Redevelopment Site
6418 Bridge Road
Monona, Dane County, WI

GROUNDWATER FLOW - FEBRUARY 8, 2017

Project Number:	Drawn By:	Date:	Figure No. 5
60517316	SAE/RPM/ANS	2/20/2017	



MW-3	1/9/2017	2/2/2017
PCE	**93.5**	**69.5**

TW-2	12/12/2016
Napthalene	*36.2*
cis DCE	*10.5*
PCE	**49.3**

PZ-5	1/9/2017	2/2/2017
VOC	NE	ND

MW-5	1/9/2017	2/2/2017
VOC	ND	ND

TW-3	12/12/2016
VOC	ND

MW-1	1/9/2017	2/2/2017
PCE	*0.99*	*0.66*

MW-2	1/9/2017	2/2/2017
PCE	*1.0*	*1.2*

PZ-4	1/9/2017	2/2/2017
TCE	0.59	ND
PCE	**10.1**	**8.9**

MW-4	1/9/2017	2/2/2017
VOC	NE	NE

TW-4	12/12/2016
VOC	NE

TW-1	12/12/2016
PCE	**16.4**

Legend:

- Monona Riverfront Redevelopment Site
- Parcel Boundary
- Historic Monitoring Well
- Monitoring Well (MW) / Piezometer (PZ)
- Subsurface Vapor and Grab Groundwater Sampling Location (TW)

Notes:

1. Aerial photograph from Google Earth Pro; image dated 6/12/2014; downloaded on 8/31/2016.
2. *Underlined italic* = PAL Exceedance
3. **Bold** = ES Exceedance
4. ND = No Detect
5. NE = No Exceedance

N

0' 50' 100' 200'

SCALE

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

Monona Riverfront Redevelopment Site
6418 Bridge Road
Monona, Dane County, WI

GROUNDWATER QUALITY EXCEEDANCES

Project Number:	Drawn By:	Date:	Figure No. 6
60517316	SAE	3/2/2017	

File: \\usmwk1fs001\prod\Data\Projects\60517316900_Work\CADD\WAM-Monona.dwg, USER: ENGELHARDT, SARAH, PLOTTED:March 2, 2017 - 4:06 PM

Borelogs, Abandonment Forms, Well Construction & Development Forms

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Monona Riverfront Redevelopment Site		MW-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site Environmental Services, LLC	12/13/2016	12/13/2016	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
V0956		MW-4	Feet MSL	855.70 Feet MSL	8.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 20, T 7 N, R 10 E
Lat 43 ° 2 ' 51.8"
Long 89 ° 20 ' 17.2"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	Monona

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	0 0		2 4 6 8 10 12 14 16	Blind Drilled to 16.0 ft. Nested Well. See PZ-4 boring log for MW-4 soil description. End of Boring at 16.0 ft.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
	AECOM	414.944.6174 Tel: 414.944.6080 Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Monona Riverfront Redevelopment Site		PZ-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site Environmental Services, LLC	12/13/2016	12/13/2016	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
V0955		PZ-4	Feet MSL	855.70 Feet MSL	8.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 20, T 7 N, R 10 E
Lat 43 ° 2 ' 51.8"
Long 89 ° 20 ' 17.2"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	Monona

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	60 60		2	Asphalt	Asphalt									
				Fill: Sand and gravel	Fill									
				Silt with some clay, moist	ML			0.8						
			4	Fine sand with silt, moist	SM									
				Fine sand with silt, trace fine gravel to cobble, moist	SP			0.4						
				Gray clay with trace silt, moist	CL									
2			6	Brown clay, trace silt, moist	CL			0.0						
			8	Brown clay, trace silt with silt seams, moist	CL			0.0						
3	60 60		10	Brownish gray clay with silt seams and fine sand, moist	CL			0.0						
			12					0.5						
			14	Fine sand with silt, trace medium gravel, moist	SP									
4	60 60			Fine sand, trace coarse gravel, moist	SP			0.5						
			16	Fine to medium sand, trace fine to coarse gravel, wet	SP			0.2						
			18					0.3						
5	60 60		20	Fine to medium sand, trace fine to coarse gravel, trace silt, wet	SP			0.8						
				Sand, trace fine gravel, wet										
			22		SP			0.2						
			24					0.4						
	60 60													

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
	AECOM	414.944.6174 Tel: 414.944.6080 Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number PZ-4 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
6			26	Sand, trace fine gravel, wet *(continued)*				0.1						
			28		SP			0.2						
	60													
7	60		30	Fine sand with silt, wet	SM			0.4						
			32	Sand, trace fine gravel, wet				1.6						
	60		34					0.6						
8	60				SP									
			36					0.6						
			38					0.3						
	60													
9	60		40	Blind drilled to 50.0 ft. (Geoprobe refusal)				0.6						
			42											
				Sand, trace fine gravel, wet										
	0		44		SP									
	0													
10			46											
			48											
	0													
	0													
				End of Boring at 50.0 ft.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Monona Riverfront Redevelopment Site		MW-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site Environmental Services, LLC	12/13/2016	12/13/2016	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
V0953		MW-5	Feet MSL	855.27 Feet MSL	8.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 20, T 7 N, R 10 E
Lat 43 ° 2 ' 53.5"
Long 89 ° 20 ' 17.1"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	Monona

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	0 0		2 4 6 8 10 12 14 16	Blind Drilled to 15.5 ft. Nested Well. See PZ-5 boring log for MW-5 soil description. End of Boring at 15.5 ft.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
	AECOM	414.944.6174 Tel: 414.944.6080 Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Monona Riverfront Redevelopment Site		PZ-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site Environmental Services, LLC	12/13/2016	12/13/2016	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
V0954		PZ-5	Feet MSL	855.27 Feet MSL	8.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 20, T 7 N, R 10 E
Lat 43 ° 2 ' 53.5"
Long 89 ° 20 ' 17.1"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	Monona

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	60 60		2	Asphalt	Asphalt									
				Base Course, sand and gravel	Fill									
				Light brown silt with clay, trace small gravel, moist	ML			0.3						
			4					0.9						
2			6	Fine sand, trace small gravel, moist	SP			0.4						
	60 60		8	Silty, dark clay, trace small gravel, moist	CL			0.4						
3			10					0.5						
			12	Fine sand, trace small gravel, moist	SP			0.7						
	60 60		14					1.8						
4			16	Silt with some clay, moist	ML			0.4						
				Fine sand, trace small gravel, moist	SP			1.3						
	60 60		18											
5			20					0.5						
			22					2.2						
				Silty clay, light brown, wet	CL									
	60 60		24					1.2						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
	AECOM	414.944.6174 Tel: 414.944.6080 Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number PZ-5 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
6			26	Fine sand, trace small gravel, wet	SP									
				Silt with fine sand, trace small gravel, light tan, wet	ML			1.1						
			28					1.7						
	60													
7	60		30					0.8						
			32					1.1						
				Gray clay with some sand, wet	CL									
	60		34	Silt, trace small gravel, wet	ML			1.2						
	60			Sand with small gravel, tan, wet	SP									
8			36	Gray clay with sand, stiff, wet	SC			0.6						
				Fine tan sand, trace small gravel, wet	SP			0.7						
			38											
	60													
	60		40											
9				No Samples - Pushed from 40.0 to 43.0 (no recovery)	SP			0.5						
			42					0.4						
				Fine tan sand, wet	SP									
	60		44	Gray clay, very stiff, wet	CL			1.0						
	24													
10				Fine sand, trace fine gravel, tan, wet	SP			1.9						
			46											
			48					1.8						
	60							1.3						
	60													
				End of Boring at 50.0 ft.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Monona Riverfront Redevelopment Site		TW-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site Environmental Services, LLC	12/12/2016	12/12/2016	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		TW-1	Feet MSL	Feet MSL	2.00

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 20, T 7 N, R 10 E
Lat 43 ° 2 ' 51.5"
Long 89 ° 20 ' 17.8"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	Monona

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	60 28		0 2	Asphalt Base Course, sand and gravel Gray silty clay, moist	Asphalt CL			0.3 0.5						
2	60 60		4 6	Gray clay, trace silt, moist	CL			0.3						
			8					0.4						
3	60 26		10	Brown fine sand, trace medium sand, wet	SM			0.3						
			12											
			14					0.8						
				Brown fine sand, trace medium sand, trace coarse gravel, wet	SM			1.8						
				End of Boring at 15.0 ft.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
Richard Mazurkiewicz	AECOM	Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Monona Riverfront Redevelopment Site		TW-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site Environmental Services, LLC	12/12/2016	12/12/2016	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		TW-2	Feet MSL	Feet MSL	2.00

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 20, T 7 N, R 10 E
Lat 43 ° 2 ' 53.5"
Long 89 ° 20 ' 18.1"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	Monona

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	60 24		0 2	Asphalt Base Course Fine sand, some fine gravel, moist	Asphalt			0.5						
			4	Brown trace silt, moist				0.3						
2	60 60		6	Fine sand, moist				0.3						
			8	Gray clay, trace silt, moist				1.2						
3	60 60		10	Trace sand, trace fine gravel, moist Wet at 11.0 ft.				0.4						
			12					0.6						
			14											
4	24 24		16											
			18	End of Boring at 18.0 ft.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
Richard Mazurkiewicz	AECOM	Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Monona Riverfront Redevelopment Site		TW-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site Environmental Services, LLC	12/12/2016	12/12/2016	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		TW-3	Feet MSL	Feet MSL	2.00

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 20, T 7 N, R 10 E
Lat 43 ° 2 ' 53.1"
Long 89 ° 20 ' 14.7"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	Monona

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	60 30		0 2	Asphalt Fill: Base Course, sand and gravel Brown trace silt, moist	Asphalt Fill			0.4						
			4					0.4						
2	60 30		6	Sand with trace coarse sand, some fine gravel at 9.0 ft., wet, trace coarse gravel at 11.0 ft., wet Wet at 5.5 ft.				0.8						
			8					0.5						
3	60 24		10					0.6						
			12					0.3						
			14	End of Boring at 15.0 ft.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
Richard Mazurkiewicz	AECOM	Fax:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Monona Riverfront Redevelopment Site		TW-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site Environmental Services, LLC	12/12/2016	12/12/2016	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		TW-4	Feet MSL	Feet MSL	2.00

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 20, T 7 N, R 10 E
Lat 43 ° 2 ' 51.4"
Long 89 ° 20 ' 15.3"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dane	13	Monona

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	60 60		0 2	Asphalt Fill: Sand and gravel Gray silt with trace clay, moist	Asphalt Fill			0.8						
			4					0.9						
2	60 42		6					1.9						
			8	Wet at 7.5 ft. Gray clay, trace silt, wet				0.2						
				Fine sand, wet										
3	60 30		10					0.8						
			12					1.5						
			14	Fine sand with some coarse gravel, wet				0.9						
				End of Boring at 15.0 ft.				0.4						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Richard Mazurkiewicz	AECOM	Tel: Fax:

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Monona Riverfront Redevelopment Site	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW-4
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. 43° 2' 51.8" Long. 89° 20' 17.2" or St. Plane ____ ft. N, ____ ft. E. S/C/N	Wis. Unique Well No.: V0956 / DNR Well Number:
Facility ID		Date Well Installed: 12/13/2016
Type of Well: Well Code 11/mw	Section Location of Waste/Source: SE 1/4 of SW 1/4 of Sec. 20, T. 7 N, R. 10 ☒ E ☐ W	Well Installed By: (Person's Name and Firm): Tony Kapugi; On-Site Environmental Services, LLC
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☒	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 855.70 ft. MSL
B. Well casing, top elevation 855.35 ft. MSL
C. Land surface elevation 855.70 ft. MSL
D. Surface seal, bottom 855.70 ft. MSL or 0.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

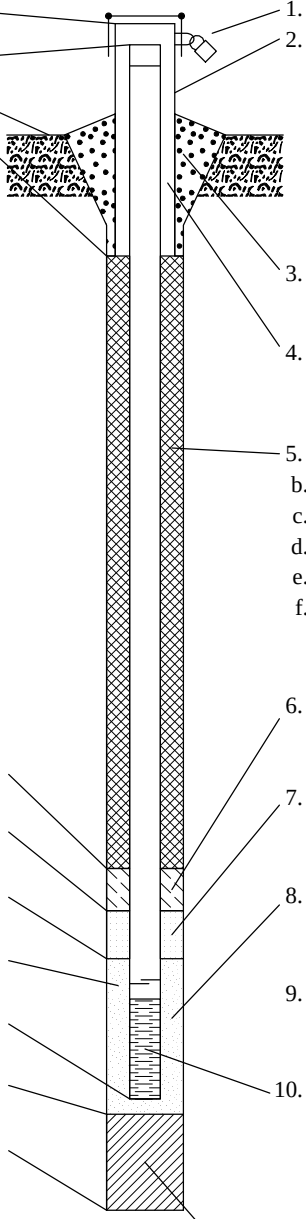
14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☒ 4 1 / Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 855.1 ft. MSL or 0.60 ft.
F. Fine sand, top 851.4 ft. MSL or 4.28 ft.
G. Filter pack, top 850.4 ft. MSL or 5.29 ft.
H. Screen joint, top 849.4 ft. MSL or 6.28 ft.
I. Well bottom 839.4 ft. MSL or 16.28 ft.
J. Filter pack, bottom 839.4 ft. MSL or 16.28 ft.
K. Borehole, bottom 839.4 ft. MSL or 16.28 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 0 4 / Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 3 0 / Concrete ☐ 0 1 / Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 3 0 / Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 1.25 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. Black Hills Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. Sidley Fine 30/100
b. Volume added 0.34 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Sidley #5 20-40
b. Volume added 3.74 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / Other ☐
10. Screen material: Polyvinyl Chloride
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4 / Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature ____ Firm AECOM Tel: 414.944.6174 Fax: 414.944.6080

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Monona Riverfront Redevelopment Site	Local Grid Location of Well: ____ft. ☐ N. ☐ S. ____ft. ☐ E. ☐ W.	Well Name: PZ-4
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. 43° 2' 51.8" Long. 89° 20' 17.2" or St. Plane ____ ft. N, ____ ft. E. S/C/N	Wis. Unique Well No.: V0955 / DNR Well Number:
Facility ID		Date Well Installed: 12/13/2016
Type of Well: Well Code 11/mw	Section Location of Waste/Source: SE 1/4 of SW 1/4 of Sec. 20, T. 7 N, R. 10 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) Tony Kapugi; On-Site Environmental Services, LLC
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☒	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 855.70 ft. MSL
B. Well casing, top elevation 855.29 ft. MSL
C. Land surface elevation 855.70 ft. MSL
D. Surface seal, bottom 855.70 ft. MSL or 0.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

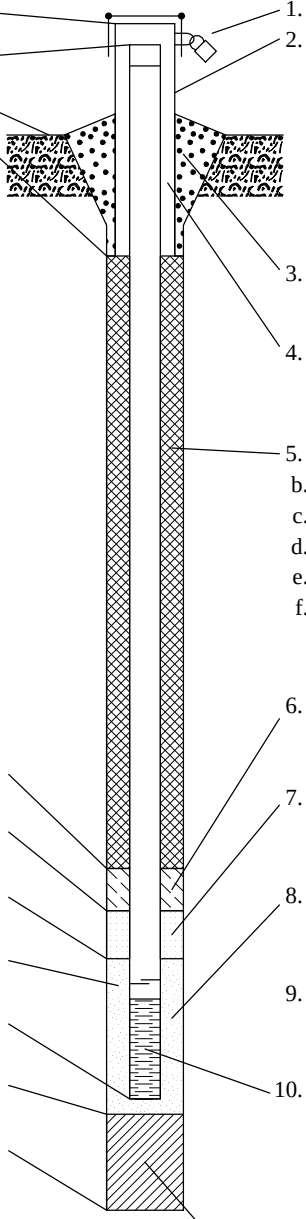
14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☒ 4 1 / Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 855.2 ft. MSL or 0.50 ft.
F. Fine sand, top 813.8 ft. MSL or 41.95 ft.
G. Filter pack, top 812.8 ft. MSL or 42.95 ft.
H. Screen joint, top 810.8 ft. MSL or 44.95 ft.
I. Well bottom 805.8 ft. MSL or 49.95 ft.
J. Filter pack, bottom 805.8 ft. MSL or 49.95 ft.
K. Borehole, bottom 805.8 ft. MSL or 49.95 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 0 4 / Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 3 0 / Concrete ☐ 0 1 / Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 3 0 / Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
b. ____Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 14.1 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. Black Hills Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. Sidley Fine 30/100
b. Volume added 0.7 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Sidley #5 20-40
b. Volume added 2.6 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / Other ☐
10. Screen material: Polyvinyl Chloride
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4 / Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature ____ Firm AECOM Tel: 414.944.6174 Fax: 414.944.6080

Please complete both Forms 4400-113A and ~~4400-113B~~ and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Monona Riverfront Redevelopment Site	Local Grid Location of Well: ____ft. ☐ N. ☐ S. ____ft. ☐ E. ☐ W.	Well Name: MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. 43° 2' 53.5" Long. 89° 20' 17.1" or St. Plane ____ ft. N, ____ ft. E. S / C / N	Wis. Unique Well No.: V0953 / DNR Well Number:
Facility ID		Date Well Installed: 12/14/2016
Type of Well: Well Code 11/mw	Section Location of Waste/Source: SE 1/4 of SW 1/4 of Sec. 20, T. 7 N, R. 10 ☒ E ☐ W	Well Installed By: (Person's Name and Firm): Tony Kapugi; On-Site Environmental Services, LLC
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☒	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 855.27 ft. MSL
B. Well casing, top elevation 855.02 ft. MSL
C. Land surface elevation 855.27 ft. MSL
D. Surface seal, bottom 855.27 ft. MSL or 0.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

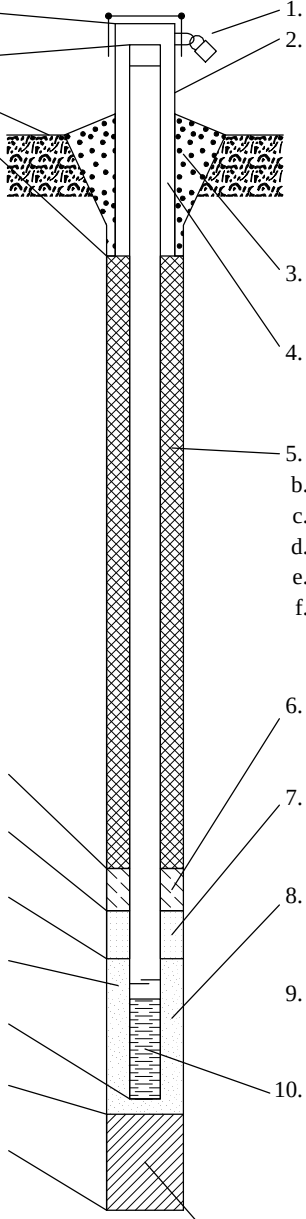
14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☒ 4 1 / Other ☐ ____

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 854.8 ft. MSL or 0.50 ft.
F. Fine sand, top 851.6 ft. MSL or 3.64 ft.
G. Filter pack, top 850.6 ft. MSL or 4.64 ft.
H. Screen joint, top 849.6 ft. MSL or 5.64 ft.
I. Well bottom 839.6 ft. MSL or 15.64 ft.
J. Filter pack, bottom 839.6 ft. MSL or 15.64 ft.
K. Borehole, bottom 838.6 ft. MSL or 16.64 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 0 4 / Other ☐ ____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ 3 0 / Concrete ☒ 0 1 / Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☒ 3 0 / Other ☐ ____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
b. ____Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 1 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. Black Hills Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. Sidley Fine 30/100
b. Volume added 0.3 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Sidley #5 20-40
b. Volume added 3.7 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / Other ☐ ____
10. Screen material: Polyvinyl Chloride
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐ ____
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4 / Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature ____ Firm AECOM 414.944.6174 Tel: 414.944.6080 Fax:

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Monona Riverfront Redevelopment Site	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: PZ-5
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. 43° 2' 53.5" Long. 89° 20' 17.1" or St. Plane ____ ft. N, ____ ft. E. S/C/N	Wis. Unique Well No.: V0954 / DNR Well Number:
Facility ID		Date Well Installed: 12/14/2016
Type of Well: Well Code 11/mw	Section Location of Waste/Source: SE 1/4 of SW 1/4 of Sec. 20, T. 7 N, R. 10 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) Tony Kapugi; On-Site Environmental Services, LLC
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☒	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 855.27 ft. MSL
B. Well casing, top elevation 854.74 ft. MSL
C. Land surface elevation 855.27 ft. MSL
D. Surface seal, bottom 855.27 ft. MSL or 0.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

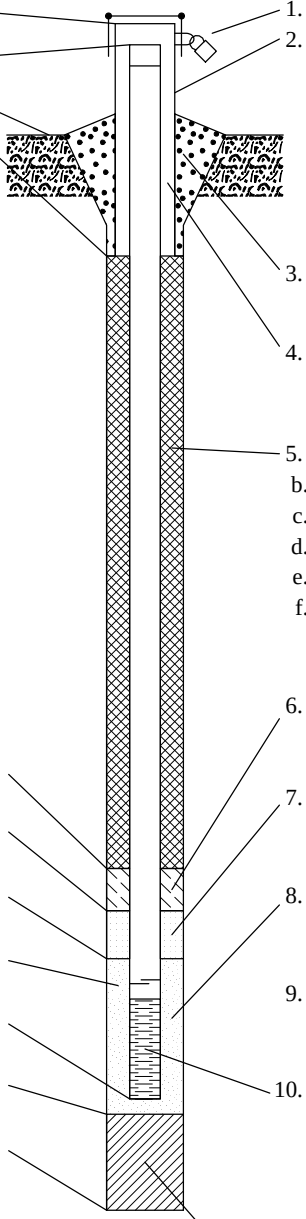
14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☒ 4 1 / Other ☐ ____

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 854.7 ft. MSL or 0.60 ft.
F. Fine sand, top 814.0 ft. MSL or 41.30 ft.
G. Filter pack, top 813.0 ft. MSL or 42.30 ft.
H. Screen joint, top 811.0 ft. MSL or 44.30 ft.
I. Well bottom 806.0 ft. MSL or 49.30 ft.
J. Filter pack, bottom 806.0 ft. MSL or 49.30 ft.
K. Borehole, bottom 806.0 ft. MSL or 49.30 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 0 4 / Other ☐ ____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ 3 0 / Concrete ☒ 0 1 / Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☒ 3 0 / Other ☐ ____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 13.9 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. Black Hills Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. Sidley Fine 30/100
b. Volume added 0.7 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Sidley #5 20-40
b. Volume added 2.4 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / Other ☐ ____
10. Screen material: Polyvinyl Chloride
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐ ____
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4 / Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature ____ Firm AECOM Tel: 414.944.6174 Fax: 414.944.6080

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	County	Well Name
Monona Riverfront Redevelopment Site	Dane	MW-4

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	13	V0956	

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☒	5 1
pumped slowly	☐	5 0
other _____	☐	

3. Time spent developing well: 60 min.

4. Depth of well (from top of well casing): 15.8 ft.

5. Inside diameter of well: 2.06 in.

6. Volume of water in filter pack and well casing: 9.0 gal.

7. Volume of water removed from well: 55.0 gal.

8. Volume of water added (if any): gal.

9. Source of water added: N/A

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	9.75 ft.	12.56 ft.
Date b.	12/13/2016	12/13/2016
Time c.	☐ a.m. 07:00 ☒ p.m.	☐ a.m. 08:00 ☒ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) Brown with some fine sand and silt	Clear ☒ 2 0 Turbid ☐ 2 5 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Richard Mazurkiewicz
AECOM

17. Additional comments on development:

Facility Address or Owner/Responsible Party
Address Name:
Firm:
Street:
City/State/Zip:

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: R
Print Name: Ric Maz
Firm: AECOM

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	County	Well Name
Monona Riverfront Redevelopment Site	Dane	PZ-4

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	13	V0955	

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☒	5 1
pumped slowly	☐	5 0
other _____	☐	

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 49.5 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 12.6 gal.

7. Volume of water removed from well 55.0 gal.

8. Volume of water added (if any) gal.

9. Source of water added N/A

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	9.55 ft.	12.61 ft.
Date b.	12/13/2016	12/13/2016
Time c.	☐ a.m. 6:00 ☒ p.m.	☐ a.m. 7:00 ☒ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) Brown with some fine sand and silt	Clear ☐ 2 0 Turbid ☒ 2 5 (Describe) Light brown

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Richard Mazurkiewicz
AECOM

17. Additional comments on development:

Facility Address or Owner/Responsible Party

Address Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: Ric Maz

Firm: AECOM

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	County	Well Name
Monona Riverfront Redevelopment Site	Dane	MW-5

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	13	V0953	

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☒	5 1
pumped slowly	☐	5 0
other _____	☐	

3. Time spent developing well: 60 min.

4. Depth of well (from top of well casing): 15.6 ft.

5. Inside diameter of well: 2.06 in.

6. Volume of water in filter pack and well casing: 5.9 gal.

7. Volume of water removed from well: 55.0 gal.

8. Volume of water added (if any): gal.

9. Source of water added: N/A

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	9.32 ft.	12.01 ft.
Date b.	12/14/2016	12/14/2016
Time c.	1 :00 ☐ a.m. ☒ p.m.	2 :00 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 1 0 Turbid ☒ 1 5	Clear ☒ 2 0 Turbid ☐ 2 5
(Describe)	Brown with some fine sand and silt	

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Richard Mazurkiewicz
AECOM

17. Additional comments on development:

Facility Address or Owner/Responsible Party
Address Name:
Firm:
Street:
City/State/Zip:

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature:
Print Name: Ric Maz
Firm: AECOM

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	County	Well Name
Monona Riverfront Redevelopment Site	Dane	PZ-5

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	13	V0954	

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☒	5 1
pumped slowly	☐	5 0
other	☐	

13.

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 9.0 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 12.7 gal.

7. Volume of water removed from well 50.0 gal.

8. Volume of water added (if any) gal.

9. Source of water added N/A

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	9.20 ft.	13.87 ft.
Date b.	12/30/2016	12/30/2016
Time c.	☒ a.m. ☐ p.m.	☒ a.m. ☐ p.m.
12. Sediment in well bottom	inches	inches
Water clarity	Clear ☐ 1 0 Turbid ☒ 1 5	Clear ☐ 2 0 Turbid ☒ 2 5
(Describe)	Brown with some fine sand and silt	Light brown
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Person's Name and Firm
Paulo Florio
AECOM

17. Additional comments on development:
Purge pump failed at 1/3 55-gallon drum - will continue at a later time
Development finished on December 30, 2016 as shown above.

Facility Address or Owner/Responsible Party

Address Name:

Firm:

Street:

City/State/Zip:

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Name: Ric Maz

Firm: AECOM

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Dane	TW-1	

Lattitude / Longitude (Degrees and Minutes): ° ' " 'W ; ° ' " 'N
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SE	SW	20	7	10 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Monona	

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Temp Investigation Boring	TW-1

2. Facility / Owner Information

Facility Name: Monona Riverfront Redevelopment Site
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: City of Monona
Present Well Owner: City of Monona
Mailing Address of Present Owner: 210 Martin Luther King Jr Blvd #203

City of Present Owner	State	ZIP Code
Monona	WI	53703

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Drillhole / Borehole

Original Construction Date: 12/12/2016
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☒ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
15.00	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	10.3

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☒ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8-inch chipped bentonite swelling clay	Surface	15.0	0.08	

6. Comments

No surface seal applied - hole topped wiht ice (will have to return in Spring)

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	DNR Use Only: Date Received	Noted By
AECOM		12/13/2016		

Street or Route	Telephone Number	Comments
1555 N RiverCenter Drive	414-944-6080	

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53212	Richard Mazurkiewicz	12-14-16

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Dane	TW-2	

Lattitude / Longitude (Degrees and Minutes): ° ' " 'W ; ° ' " 'N
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SE	SW	20	7	10 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Monona	

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Temp Investigation Boring	TW-2

2. Facility / Owner Information

Facility Name: Monona Riverfront Redevelopment Site
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: City of Monona
Present Well Owner: City of Monona
Mailing Address of Present Owner: 210 Martin Luther King Jr Blvd #203

City of Present Owner	State	ZIP Code
Monona	WI	53703

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Drillhole / Borehole

Original Construction Date: 12/12/2016
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☒ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
17.00	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	10.8

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☒ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8-inch chipped bentonite swelling clay	Surface	16.0	0.09	

6. Comments

No surface seal applied - hole topped wiht ice (will have to return in Spring)

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
AECOM		12/13/2016

Street or Route	Telephone Number
1555 N RiverCenter Drive	414-944-6080

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53212	Richard Mazurkiewicz	12-14-16

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Dane	TW-3	

Lattitude / Longitude (Degrees and Minutes): ° ' " 'W ; ° ' " 'N
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SE	SW	20	7	10 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Monona	

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Temp Investigation Boring	TW-3

2. Facility / Owner Information

Facility Name: Monona Riverfront Redevelopment Site
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: City of Monona
Present Well Owner: City of Monona
Mailing Address of Present Owner: 210 Martin Luther King Jr Blvd #203

City of Present Owner	State	ZIP Code
Monona	WI	53703

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Drillhole / Borehole

Original Construction Date: 12/12/2016
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☒ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
15.00	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	6.2

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☒ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8-inch chipped bentonite swelling clay	Surface	13.0	0.07	

6. Comments

No surface seal applied - hole topped wiht ice (will have to return in Spring)

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
AECOM		12/13/2016

Street or Route	Telephone Number
1555 N RiverCenter Drive	414-944-6080

City	State	ZIP Code
Milwaukee	WI	53212

Signature of Person Doing Work: Richard Mazurkiewicz
Date Signed: 12-14-16

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Dane	TW-4	

Lattitude / Longitude (Degrees and Minutes): ° ' " 'W ; ° ' " 'N
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SE	SW	20	7	10 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Monona	

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Temp Investigation Boring	TW-4

2. Facility / Owner Information

Facility Name: Monona Riverfront Redevelopment Site
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: City of Monona
Present Well Owner: City of Monona
Mailing Address of Present Owner: 210 Martin Luther King Jr Blvd #203

City of Present Owner	State	ZIP Code
Monona	WI	53703

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Drillhole / Borehole

Original Construction Date: 12/12/2016
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☒ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
15.00	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	7.5

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left in place?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☒ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8-inch chipped bentonite swelling clay	Surface	14.5	0.08	

6. Comments

No surface seal applied - hole topped wiht ice (will have to return in Spring)

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
AECOM		12/13/2016

Street or Route	Telephone Number
1555 N RiverCenter Drive	414-944-6080

City	State	ZIP Code
Milwaukee	WI	53212

Signature of Person Doing Work: Richard Mazurkiewicz
Date Signed: 12-14-16

DNR Use Only

Date Received	Noted By

Comments:

Laboratory Analytical Reports

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

December 23, 2016

Lanette Altenbach
AECOM-Air
1555 N River Center Drive
Milwaukee, WI 53212

RE: Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

Dear Lanette Altenbach:
Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2016. 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

cc: Dean Fenske, AECOM-AIR

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

CERTIFICATIONS

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

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: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10373675001	**TW-2**	Air	12/13/16 03:31	12/19/16 09:50
10373675002	**TW-1**	Air	12/13/16 04:51	12/19/16 09:50
10373675003	**TW-3**	Air	12/13/16 11:53	12/19/16 09:50
10373675004	**TW-4**	Air	12/13/16 01:39	12/19/16 09:50
10373675005	**Unused Can#2684**	Air		12/19/16 15:48

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

SAMPLE ANALYTE COUNT

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10373675001	**TW-2**	TO-15	MJL	61	PASI-M
10373675002	**TW-1**	TO-15	MJL	61	PASI-M
10373675003	**TW-3**	TO-15	MJL	61	PASI-M
10373675004	**TW-4**	TO-15	DR1, MJL	61	PASI-M

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

Sample: TW-2 **Lab ID: 10373675001** Collected: 12/13/16 03:31 Received: 12/19/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**268**	ug/m3	3.6	1.2	1.49		12/20/16 09:27	67-64-1	
Benzene	**12.9**	ug/m3	0.48	0.18	1.49		12/20/16 09:27	71-43-2	
Benzyl chloride	**<0.25**	ug/m3	1.6	0.25	1.49		12/20/16 09:27	100-44-7	
Bromodichloromethane	**<0.29**	ug/m3	2.0	0.29	1.49		12/20/16 09:27	75-27-4	
Bromoform	**<1.3**	ug/m3	7.8	1.3	1.49		12/20/16 09:27	75-25-2	
Bromomethane	**<0.46**	ug/m3	1.2	0.46	1.49		12/20/16 09:27	74-83-9	
1,3-Butadiene	**<0.26**	ug/m3	0.67	0.26	1.49		12/20/16 09:27	106-99-0	
2-Butanone (MEK)	**23.8**	ug/m3	4.5	0.34	1.49		12/20/16 09:27	78-93-3	
Carbon disulfide	**4.7**	ug/m3	0.94	0.15	1.49		12/20/16 09:27	75-15-0	
Carbon tetrachloride	**<0.29**	ug/m3	1.9	0.29	1.49		12/20/16 09:27	56-23-5	
Chlorobenzene	**<0.20**	ug/m3	1.4	0.20	1.49		12/20/16 09:27	108-90-7	
Chloroethane	**<0.29**	ug/m3	0.80	0.29	1.49		12/20/16 09:27	75-00-3	
Chloroform	**<0.28**	ug/m3	0.74	0.28	1.49		12/20/16 09:27	67-66-3	
Chloromethane	**<0.16**	ug/m3	0.63	0.16	1.49		12/20/16 09:27	74-87-3	
Cyclohexane	**21.0**	ug/m3	1.0	0.47	1.49		12/20/16 09:27	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	2.6	1.3	1.49		12/20/16 09:27	124-48-1	
1,2-Dibromoethane (EDB)	**<1.2**	ug/m3	2.3	1.2	1.49		12/20/16 09:27	106-93-4	
1,2-Dichlorobenzene	**<0.76**	ug/m3	4.6	0.76	1.49		12/20/16 09:27	95-50-1	
1,3-Dichlorobenzene	**<0.79**	ug/m3	4.6	0.79	1.49		12/20/16 09:27	541-73-1	
1,4-Dichlorobenzene	**4.9**	ug/m3	1.8	0.74	1.49		12/20/16 09:27	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.5	0.72	1.49		12/20/16 09:27	75-71-8	
1,1-Dichloroethane	**<0.23**	ug/m3	1.2	0.23	1.49		12/20/16 09:27	75-34-3	
1,2-Dichloroethane	**<0.31**	ug/m3	0.61	0.31	1.49		12/20/16 09:27	107-06-2	
1,1-Dichloroethene	**<0.35**	ug/m3	1.2	0.35	1.49		12/20/16 09:27	75-35-4	
cis-1,2-Dichloroethene	**4.4**	ug/m3	1.2	0.37	1.49		12/20/16 09:27	156-59-2	
trans-1,2-Dichloroethene	**<0.57**	ug/m3	1.2	0.57	1.49		12/20/16 09:27	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.4	0.40	1.49		12/20/16 09:27	78-87-5	
cis-1,3-Dichloropropene	**<0.55**	ug/m3	1.4	0.55	1.49		12/20/16 09:27	10061-01-5	
trans-1,3-Dichloropropene	**<0.39**	ug/m3	1.4	0.39	1.49		12/20/16 09:27	10061-02-6	
Dichlorotetrafluoroethane	**<0.46**	ug/m3	2.1	0.46	1.49		12/20/16 09:27	76-14-2	
Ethanol	**8.8**	ug/m3	1.4	0.39	1.49		12/20/16 09:27	64-17-5	
Ethyl acetate	**<0.52**	ug/m3	1.1	0.52	1.49		12/20/16 09:27	141-78-6	
Ethylbenzene	**27.8**	ug/m3	1.3	0.63	1.49		12/20/16 09:27	100-41-4	
4-Ethyltoluene	**14.1**	ug/m3	1.5	0.28	1.49		12/20/16 09:27	622-96-8	
n-Heptane	**12.4**	ug/m3	1.2	0.42	1.49		12/20/16 09:27	142-82-5	
Hexachloro-1,3-butadiene	**<0.97**	ug/m3	3.2	0.97	1.49		12/20/16 09:27	87-68-3	
n-Hexane	**31.0**	ug/m3	1.1	0.53	1.49		12/20/16 09:27	110-54-3	
2-Hexanone	**7.2**	ug/m3	6.2	0.61	1.49		12/20/16 09:27	591-78-6	
Methylene Chloride	**12.3**	ug/m3	5.3	0.81	1.49		12/20/16 09:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.4J**	ug/m3	6.2	0.32	1.49		12/20/16 09:27	108-10-1	
Methyl-tert-butyl ether	**<0.45**	ug/m3	5.5	0.45	1.49		12/20/16 09:27	1634-04-4	
Naphthalene	**8.4**	ug/m3	4.0	0.45	1.49		12/20/16 09:27	91-20-3	CH
2-Propanol	**5.2**	ug/m3	3.7	0.36	1.49		12/20/16 09:27	67-63-0	
Propylene	**76.8**	ug/m3	0.52	0.20	1.49		12/20/16 09:27	115-07-1	
Styrene	**<0.29**	ug/m3	1.3	0.29	1.49		12/20/16 09:27	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.49**	ug/m3	1.0	0.49	1.49		12/20/16 09:27	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

Sample: TW-2 **Lab ID: 10373675001** Collected: 12/13/16 03:31 Received: 12/19/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**29.1**	ug/m3	1.0	0.41	1.49		12/20/16 09:27	127-18-4	
Tetrahydrofuran	**<0.18**	ug/m3	0.89	0.18	1.49		12/20/16 09:27	109-99-9	
Toluene	**47.4**	ug/m3	1.1	0.23	1.49		12/20/16 09:27	108-88-3	
1,2,4-Trichlorobenzene	**<1.4**	ug/m3	5.6	1.4	1.49		12/20/16 09:27	120-82-1	
1,1,1-Trichloroethane	**<0.37**	ug/m3	1.7	0.37	1.49		12/20/16 09:27	71-55-6	
1,1,2-Trichloroethane	**<0.37**	ug/m3	0.82	0.37	1.49		12/20/16 09:27	79-00-5	
Trichloroethene	**0.87**	ug/m3	0.82	0.41	1.49		12/20/16 09:27	79-01-6	
Trichlorofluoromethane	**1.1J**	ug/m3	1.7	0.20	1.49		12/20/16 09:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.45**	ug/m3	2.4	0.45	1.49		12/20/16 09:27	76-13-1	
1,2,4-Trimethylbenzene	**35.9**	ug/m3	1.5	0.19	1.49		12/20/16 09:27	95-63-6	
1,3,5-Trimethylbenzene	**14.9**	ug/m3	1.5	0.27	1.49		12/20/16 09:27	108-67-8	
Vinyl acetate	**6.0**	ug/m3	1.1	0.49	1.49		12/20/16 09:27	108-05-4	
Vinyl chloride	**<0.29**	ug/m3	0.39	0.29	1.49		12/20/16 09:27	75-01-4	
m&p-Xylene	**37.9**	ug/m3	2.6	1.2	1.49		12/20/16 09:27	179601-23-1	
o-Xylene	**11.9**	ug/m3	1.3	0.52	1.49		12/20/16 09:27	95-47-6	

Sample: TW-1 **Lab ID: 10373675002** Collected: 12/13/16 04:51 Received: 12/19/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**32.9**	ug/m3	3.0	1.0	1.26		12/20/16 09:54	67-64-1	
Benzene	**12.0**	ug/m3	0.41	0.15	1.26		12/20/16 09:54	71-43-2	
Benzyl chloride	**<0.21**	ug/m3	1.3	0.21	1.26		12/20/16 09:54	100-44-7	
Bromodichloromethane	**<0.24**	ug/m3	1.7	0.24	1.26		12/20/16 09:54	75-27-4	
Bromoform	**<1.1**	ug/m3	6.6	1.1	1.26		12/20/16 09:54	75-25-2	
Bromomethane	**<0.39**	ug/m3	1.0	0.39	1.26		12/20/16 09:54	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.57	0.22	1.26		12/20/16 09:54	106-99-0	
2-Butanone (MEK)	**10.7**	ug/m3	3.8	0.29	1.26		12/20/16 09:54	78-93-3	
Carbon disulfide	**17.7**	ug/m3	0.79	0.13	1.26		12/20/16 09:54	75-15-0	
Carbon tetrachloride	**0.95J**	ug/m3	1.6	0.24	1.26		12/20/16 09:54	56-23-5	
Chlorobenzene	**<0.17**	ug/m3	1.2	0.17	1.26		12/20/16 09:54	108-90-7	
Chloroethane	**<0.24**	ug/m3	0.68	0.24	1.26		12/20/16 09:54	75-00-3	
Chloroform	**<0.24**	ug/m3	0.62	0.24	1.26		12/20/16 09:54	67-66-3	
Chloromethane	**<0.14**	ug/m3	0.53	0.14	1.26		12/20/16 09:54	74-87-3	
Cyclohexane	**36.1**	ug/m3	0.88	0.40	1.26		12/20/16 09:54	110-82-7	
Dibromochloromethane	**<1.1**	ug/m3	2.2	1.1	1.26		12/20/16 09:54	124-48-1	
1,2-Dibromoethane (EDB)	**<0.98**	ug/m3	2.0	0.98	1.26		12/20/16 09:54	106-93-4	
1,2-Dichlorobenzene	**<0.65**	ug/m3	3.8	0.65	1.26		12/20/16 09:54	95-50-1	
1,3-Dichlorobenzene	**<0.67**	ug/m3	3.8	0.67	1.26		12/20/16 09:54	541-73-1	
1,4-Dichlorobenzene	**1.4J**	ug/m3	1.5	0.63	1.26		12/20/16 09:54	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.3	0.60	1.26		12/20/16 09:54	75-71-8	
1,1-Dichloroethane	**<0.20**	ug/m3	1.0	0.20	1.26		12/20/16 09:54	75-34-3	
1,2-Dichloroethane	**<0.26**	ug/m3	0.52	0.26	1.26		12/20/16 09:54	107-06-2	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

Sample: TW-1 **Lab ID: 10373675002** Collected: 12/13/16 04:51 Received: 12/19/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.30**	ug/m3	1.0	0.30	1.26		12/20/16 09:54	75-35-4	
cis-1,2-Dichloroethene	**<0.31**	ug/m3	1.0	0.31	1.26		12/20/16 09:54	156-59-2	
trans-1,2-Dichloroethene	**<0.48**	ug/m3	1.0	0.48	1.26		12/20/16 09:54	156-60-5	
1,2-Dichloropropane	**<0.34**	ug/m3	1.2	0.34	1.26		12/20/16 09:54	78-87-5	
cis-1,3-Dichloropropene	**<0.46**	ug/m3	1.2	0.46	1.26		12/20/16 09:54	10061-01-5	
trans-1,3-Dichloropropene	**<0.33**	ug/m3	1.2	0.33	1.26		12/20/16 09:54	10061-02-6	
Dichlorotetrafluoroethane	**<0.39**	ug/m3	1.8	0.39	1.26		12/20/16 09:54	76-14-2	
Ethanol	**29.8**	ug/m3	1.2	0.33	1.26		12/20/16 09:54	64-17-5	
Ethyl acetate	**1.3**	ug/m3	0.92	0.44	1.26		12/20/16 09:54	141-78-6	
Ethylbenzene	**3.8**	ug/m3	1.1	0.54	1.26		12/20/16 09:54	100-41-4	
4-Ethyltoluene	**1.0J**	ug/m3	1.3	0.24	1.26		12/20/16 09:54	622-96-8	
n-Heptane	**13.3**	ug/m3	1.0	0.35	1.26		12/20/16 09:54	142-82-5	
Hexachloro-1,3-butadiene	**<0.82**	ug/m3	2.7	0.82	1.26		12/20/16 09:54	87-68-3	
n-Hexane	**39.0**	ug/m3	0.91	0.45	1.26		12/20/16 09:54	110-54-3	
2-Hexanone	**1.1J**	ug/m3	5.2	0.52	1.26		12/20/16 09:54	591-78-6	
Methylene Chloride	**3.4J**	ug/m3	4.4	0.68	1.26		12/20/16 09:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.3J**	ug/m3	5.2	0.27	1.26		12/20/16 09:54	108-10-1	
Methyl-tert-butyl ether	**<0.38**	ug/m3	4.6	0.38	1.26		12/20/16 09:54	1634-04-4	
Naphthalene	**<0.38**	ug/m3	3.4	0.38	1.26		12/20/16 09:54	91-20-3	
2-Propanol	**<0.30**	ug/m3	3.2	0.30	1.26		12/20/16 09:54	67-63-0	
Propylene	**203**	ug/m3	0.44	0.17	1.26		12/20/16 09:54	115-07-1	E
Styrene	**<0.24**	ug/m3	1.1	0.24	1.26		12/20/16 09:54	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.41**	ug/m3	0.88	0.41	1.26		12/20/16 09:54	79-34-5	
Tetrachloroethene	**10.8**	ug/m3	0.87	0.35	1.26		12/20/16 09:54	127-18-4	
Tetrahydrofuran	**<0.15**	ug/m3	0.76	0.15	1.26		12/20/16 09:54	109-99-9	
Toluene	**25.5**	ug/m3	0.97	0.19	1.26		12/20/16 09:54	108-88-3	
1,2,4-Trichlorobenzene	**<1.1**	ug/m3	4.8	1.1	1.26		12/20/16 09:54	120-82-1	
1,1,1-Trichloroethane	**<0.31**	ug/m3	1.4	0.31	1.26		12/20/16 09:54	71-55-6	
1,1,2-Trichloroethane	**<0.31**	ug/m3	0.69	0.31	1.26		12/20/16 09:54	79-00-5	
Trichloroethene	**<0.35**	ug/m3	0.69	0.35	1.26		12/20/16 09:54	79-01-6	
Trichlorofluoromethane	**20.5**	ug/m3	1.4	0.17	1.26		12/20/16 09:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.52J**	ug/m3	2.0	0.38	1.26		12/20/16 09:54	76-13-1	
1,2,4-Trimethylbenzene	**2.1**	ug/m3	1.3	0.16	1.26		12/20/16 09:54	95-63-6	
1,3,5-Trimethylbenzene	**0.81J**	ug/m3	1.3	0.23	1.26		12/20/16 09:54	108-67-8	
Vinyl acetate	**<0.42**	ug/m3	0.90	0.42	1.26		12/20/16 09:54	108-05-4	
Vinyl chloride	**<0.25**	ug/m3	0.33	0.25	1.26		12/20/16 09:54	75-01-4	
m&p-Xylene	**8.0**	ug/m3	2.2	0.99	1.26		12/20/16 09:54	179601-23-1	
o-Xylene	**2.7**	ug/m3	1.1	0.44	1.26		12/20/16 09:54	95-47-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

Sample: TW-3 **Lab ID: 10373675003** Collected: 12/13/16 11:53 Received: 12/19/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**9.2**	ug/m3	3.0	1.0	1.26		12/20/16 10:20	67-64-1	
Benzene	**5.4**	ug/m3	0.41	0.15	1.26		12/20/16 10:20	71-43-2	
Benzyl chloride	**<0.21**	ug/m3	1.3	0.21	1.26		12/20/16 10:20	100-44-7	
Bromodichloromethane	**<0.24**	ug/m3	1.7	0.24	1.26		12/20/16 10:20	75-27-4	
Bromoform	**<1.1**	ug/m3	6.6	1.1	1.26		12/20/16 10:20	75-25-2	
Bromomethane	**<0.39**	ug/m3	1.0	0.39	1.26		12/20/16 10:20	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.57	0.22	1.26		12/20/16 10:20	106-99-0	
2-Butanone (MEK)	**2.8J**	ug/m3	3.8	0.29	1.26		12/20/16 10:20	78-93-3	
Carbon disulfide	**3.1**	ug/m3	0.79	0.13	1.26		12/20/16 10:20	75-15-0	
Carbon tetrachloride	**0.72J**	ug/m3	1.6	0.24	1.26		12/20/16 10:20	56-23-5	
Chlorobenzene	**<0.17**	ug/m3	1.2	0.17	1.26		12/20/16 10:20	108-90-7	
Chloroethane	**<0.24**	ug/m3	0.68	0.24	1.26		12/20/16 10:20	75-00-3	
Chloroform	**0.60J**	ug/m3	0.62	0.24	1.26		12/20/16 10:20	67-66-3	
Chloromethane	**<0.14**	ug/m3	0.53	0.14	1.26		12/20/16 10:20	74-87-3	
Cyclohexane	**10.6**	ug/m3	0.88	0.40	1.26		12/20/16 10:20	110-82-7	
Dibromochloromethane	**<1.1**	ug/m3	2.2	1.1	1.26		12/20/16 10:20	124-48-1	
1,2-Dibromoethane (EDB)	**<0.98**	ug/m3	2.0	0.98	1.26		12/20/16 10:20	106-93-4	
1,2-Dichlorobenzene	**<0.65**	ug/m3	3.8	0.65	1.26		12/20/16 10:20	95-50-1	
1,3-Dichlorobenzene	**<0.67**	ug/m3	3.8	0.67	1.26		12/20/16 10:20	541-73-1	
1,4-Dichlorobenzene	**<0.63**	ug/m3	1.5	0.63	1.26		12/20/16 10:20	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.3	0.60	1.26		12/20/16 10:20	75-71-8	
1,1-Dichloroethane	**<0.20**	ug/m3	1.0	0.20	1.26		12/20/16 10:20	75-34-3	
1,2-Dichloroethane	**<0.26**	ug/m3	0.52	0.26	1.26		12/20/16 10:20	107-06-2	
1,1-Dichloroethene	**<0.30**	ug/m3	1.0	0.30	1.26		12/20/16 10:20	75-35-4	
cis-1,2-Dichloroethene	**<0.31**	ug/m3	1.0	0.31	1.26		12/20/16 10:20	156-59-2	
trans-1,2-Dichloroethene	**<0.48**	ug/m3	1.0	0.48	1.26		12/20/16 10:20	156-60-5	
1,2-Dichloropropane	**<0.34**	ug/m3	1.2	0.34	1.26		12/20/16 10:20	78-87-5	
cis-1,3-Dichloropropene	**<0.46**	ug/m3	1.2	0.46	1.26		12/20/16 10:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.33**	ug/m3	1.2	0.33	1.26		12/20/16 10:20	10061-02-6	
Dichlorotetrafluoroethane	**<0.39**	ug/m3	1.8	0.39	1.26		12/20/16 10:20	76-14-2	
Ethanol	**3.4**	ug/m3	1.2	0.33	1.26		12/20/16 10:20	64-17-5	
Ethyl acetate	**<0.44**	ug/m3	0.92	0.44	1.26		12/20/16 10:20	141-78-6	
Ethylbenzene	**3.5**	ug/m3	1.1	0.54	1.26		12/20/16 10:20	100-41-4	
4-Ethyltoluene	**0.94J**	ug/m3	1.3	0.24	1.26		12/20/16 10:20	622-96-8	
n-Heptane	**11.6**	ug/m3	1.0	0.35	1.26		12/20/16 10:20	142-82-5	
Hexachloro-1,3-butadiene	**<0.82**	ug/m3	2.7	0.82	1.26		12/20/16 10:20	87-68-3	
n-Hexane	**18.8**	ug/m3	0.91	0.45	1.26		12/20/16 10:20	110-54-3	
2-Hexanone	**0.79J**	ug/m3	5.2	0.52	1.26		12/20/16 10:20	591-78-6	
Methylene Chloride	**1.7J**	ug/m3	4.4	0.68	1.26		12/20/16 10:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.59J**	ug/m3	5.2	0.27	1.26		12/20/16 10:20	108-10-1	
Methyl-tert-butyl ether	**<0.38**	ug/m3	4.6	0.38	1.26		12/20/16 10:20	1634-04-4	
Naphthalene	**<0.38**	ug/m3	3.4	0.38	1.26		12/20/16 10:20	91-20-3	
2-Propanol	**5.6**	ug/m3	3.2	0.30	1.26		12/20/16 10:20	67-63-0	
Propylene	**<0.17**	ug/m3	0.44	0.17	1.26		12/20/16 10:20	115-07-1	
Styrene	**<0.24**	ug/m3	1.1	0.24	1.26		12/20/16 10:20	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.41**	ug/m3	0.88	0.41	1.26		12/20/16 10:20	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

Sample: TW-3 **Lab ID: 10373675003** Collected: 12/13/16 11:53 Received: 12/19/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**<0.35**	ug/m3	0.87	0.35	1.26		12/20/16 10:20	127-18-4	
Tetrahydrofuran	**<0.15**	ug/m3	0.76	0.15	1.26		12/20/16 10:20	109-99-9	
Toluene	**18.9**	ug/m3	0.97	0.19	1.26		12/20/16 10:20	108-88-3	
1,2,4-Trichlorobenzene	**<1.1**	ug/m3	4.8	1.1	1.26		12/20/16 10:20	120-82-1	
1,1,1-Trichloroethane	**<0.31**	ug/m3	1.4	0.31	1.26		12/20/16 10:20	71-55-6	
1,1,2-Trichloroethane	**<0.31**	ug/m3	0.69	0.31	1.26		12/20/16 10:20	79-00-5	
Trichloroethene	**<0.35**	ug/m3	0.69	0.35	1.26		12/20/16 10:20	79-01-6	
Trichlorofluoromethane	**0.95J**	ug/m3	1.4	0.17	1.26		12/20/16 10:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.38**	ug/m3	2.0	0.38	1.26		12/20/16 10:20	76-13-1	
1,2,4-Trimethylbenzene	**2.7**	ug/m3	1.3	0.16	1.26		12/20/16 10:20	95-63-6	
1,3,5-Trimethylbenzene	**0.93J**	ug/m3	1.3	0.23	1.26		12/20/16 10:20	108-67-8	
Vinyl acetate	**<0.42**	ug/m3	0.90	0.42	1.26		12/20/16 10:20	108-05-4	
Vinyl chloride	**<0.25**	ug/m3	0.33	0.25	1.26		12/20/16 10:20	75-01-4	
m&p-Xylene	**3.4**	ug/m3	2.2	0.99	1.26		12/20/16 10:20	179601-23-1	
o-Xylene	**1.1**	ug/m3	1.1	0.44	1.26		12/20/16 10:20	95-47-6	

Sample: TW-4 **Lab ID: 10373675004** Collected: 12/13/16 01:39 Received: 12/19/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**103**	ug/m3	3.5	1.2	1.44		12/20/16 10:46	67-64-1	
Benzene	**10.7**	ug/m3	0.47	0.18	1.44		12/20/16 10:46	71-43-2	
Benzyl chloride	**<0.24**	ug/m3	1.5	0.24	1.44		12/20/16 10:46	100-44-7	
Bromodichloromethane	**<0.28**	ug/m3	2.0	0.28	1.44		12/20/16 10:46	75-27-4	
Bromoform	**<1.3**	ug/m3	7.6	1.3	1.44		12/20/16 10:46	75-25-2	
Bromomethane	**<0.45**	ug/m3	1.1	0.45	1.44		12/20/16 10:46	74-83-9	
1,3-Butadiene	**<0.25**	ug/m3	0.65	0.25	1.44		12/20/16 10:46	106-99-0	
2-Butanone (MEK)	**35.2**	ug/m3	4.3	0.33	1.44		12/20/16 10:46	78-93-3	
Carbon disulfide	**45.2**	ug/m3	0.91	0.15	1.44		12/20/16 10:46	75-15-0	
Carbon tetrachloride	**0.81J**	ug/m3	1.8	0.28	1.44		12/20/16 10:46	56-23-5	
Chlorobenzene	**<0.19**	ug/m3	1.4	0.19	1.44		12/20/16 10:46	108-90-7	
Chloroethane	**<0.28**	ug/m3	0.78	0.28	1.44		12/20/16 10:46	75-00-3	
Chloroform	**<0.27**	ug/m3	0.71	0.27	1.44		12/20/16 10:46	67-66-3	
Chloromethane	**<0.16**	ug/m3	0.60	0.16	1.44		12/20/16 10:46	74-87-3	
Cyclohexane	**26.7**	ug/m3	1.0	0.46	1.44		12/20/16 10:46	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	2.5	1.2	1.44		12/20/16 10:46	124-48-1	
1,2-Dibromoethane (EDB)	**<1.1**	ug/m3	2.2	1.1	1.44		12/20/16 10:46	106-93-4	
1,2-Dichlorobenzene	**<0.74**	ug/m3	4.4	0.74	1.44		12/20/16 10:46	95-50-1	
1,3-Dichlorobenzene	**<0.76**	ug/m3	4.4	0.76	1.44		12/20/16 10:46	541-73-1	
1,4-Dichlorobenzene	**2.8**	ug/m3	1.8	0.72	1.44		12/20/16 10:46	106-46-7	
Dichlorodifluoromethane	**1.0J**	ug/m3	1.5	0.69	1.44		12/20/16 10:46	75-71-8	
1,1-Dichloroethane	**<0.23**	ug/m3	1.2	0.23	1.44		12/20/16 10:46	75-34-3	
1,2-Dichloroethane	**<0.30**	ug/m3	0.59	0.30	1.44		12/20/16 10:46	107-06-2	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

Sample: TW-4 **Lab ID: 10373675004** Collected: 12/13/16 01:39 Received: 12/19/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.34**	ug/m3	1.2	0.34	1.44		12/20/16 10:46	75-35-4	
cis-1,2-Dichloroethene	**<0.35**	ug/m3	1.2	0.35	1.44		12/20/16 10:46	156-59-2	
trans-1,2-Dichloroethene	**<0.55**	ug/m3	1.2	0.55	1.44		12/20/16 10:46	156-60-5	
1,2-Dichloropropane	**<0.39**	ug/m3	1.4	0.39	1.44		12/20/16 10:46	78-87-5	
cis-1,3-Dichloropropene	**<0.53**	ug/m3	1.3	0.53	1.44		12/20/16 10:46	10061-01-5	
trans-1,3-Dichloropropene	**<0.37**	ug/m3	1.3	0.37	1.44		12/20/16 10:46	10061-02-6	
Dichlorotetrafluoroethane	**<0.45**	ug/m3	2.0	0.45	1.44		12/20/16 10:46	76-14-2	
Ethanol	**6.7**	ug/m3	1.4	0.38	1.44		12/20/16 10:46	64-17-5	
Ethyl acetate	**0.57J**	ug/m3	1.1	0.50	1.44		12/20/16 10:46	141-78-6	
Ethylbenzene	**41.9**	ug/m3	1.3	0.61	1.44		12/20/16 10:46	100-41-4	
4-Ethyltoluene	**2.2**	ug/m3	1.4	0.27	1.44		12/20/16 10:46	622-96-8	
n-Heptane	**18.6**	ug/m3	1.2	0.40	1.44		12/20/16 10:46	142-82-5	
Hexachloro-1,3-butadiene	**<0.94**	ug/m3	3.1	0.94	1.44		12/20/16 10:46	87-68-3	
n-Hexane	**451**	ug/m3	10.4	5.1	14.4		12/22/16 02:26	110-54-3	
2-Hexanone	**<0.59**	ug/m3	6.0	0.59	1.44		12/20/16 10:46	591-78-6	
Methylene Chloride	**18.8**	ug/m3	5.1	0.78	1.44		12/20/16 10:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.3J**	ug/m3	6.0	0.31	1.44		12/20/16 10:46	108-10-1	
Methyl-tert-butyl ether	**<0.44**	ug/m3	5.3	0.44	1.44		12/20/16 10:46	1634-04-4	
Naphthalene	**3.2J**	ug/m3	3.8	0.44	1.44		12/20/16 10:46	91-20-3	
2-Propanol	**5.5**	ug/m3	3.6	0.35	1.44		12/20/16 10:46	67-63-0	
Propylene	**432**	ug/m3	5.0	1.9	14.4		12/22/16 02:26	115-07-1	
Styrene	**<0.28**	ug/m3	1.3	0.28	1.44		12/20/16 10:46	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.47**	ug/m3	1.0	0.47	1.44		12/20/16 10:46	79-34-5	
Tetrachloroethene	**0.53J**	ug/m3	0.99	0.40	1.44		12/20/16 10:46	127-18-4	
Tetrahydrofuran	**<0.17**	ug/m3	0.86	0.17	1.44		12/20/16 10:46	109-99-9	
Toluene	**104**	ug/m3	1.1	0.22	1.44		12/20/16 10:46	108-88-3	
1,2,4-Trichlorobenzene	**<1.3**	ug/m3	5.4	1.3	1.44		12/20/16 10:46	120-82-1	
1,1,1-Trichloroethane	**<0.36**	ug/m3	1.6	0.36	1.44		12/20/16 10:46	71-55-6	
1,1,2-Trichloroethane	**<0.35**	ug/m3	0.79	0.35	1.44		12/20/16 10:46	79-00-5	
Trichloroethene	**<0.40**	ug/m3	0.79	0.40	1.44		12/20/16 10:46	79-01-6	
Trichlorofluoromethane	**<0.19**	ug/m3	1.6	0.19	1.44		12/20/16 10:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.43**	ug/m3	2.3	0.43	1.44		12/20/16 10:46	76-13-1	
1,2,4-Trimethylbenzene	**5.1**	ug/m3	1.4	0.18	1.44		12/20/16 10:46	95-63-6	
1,3,5-Trimethylbenzene	**1.7**	ug/m3	1.4	0.26	1.44		12/20/16 10:46	108-67-8	
Vinyl acetate	**<0.48**	ug/m3	1.0	0.48	1.44		12/20/16 10:46	108-05-4	
Vinyl chloride	**<0.28**	ug/m3	0.37	0.28	1.44		12/20/16 10:46	75-01-4	
m&p-Xylene	**114**	ug/m3	2.5	1.1	1.44		12/20/16 10:46	179601-23-1	
o-Xylene	**36.6**	ug/m3	1.3	0.51	1.44		12/20/16 10:46	95-47-6	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

QC Batch: 452646 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10373675001, 10373675002, 10373675003, 10373675004

METHOD BLANK: 2477667 Matrix: Air
Associated Lab Samples: 10373675001, 10373675002, 10373675003, 10373675004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	12/20/16 09:00	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	12/20/16 09:00	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	12/20/16 09:00	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	12/20/16 09:00	
1,1-Dichloroethane	ug/m3	<0.16	0.82	12/20/16 09:00	
1,1-Dichloroethene	ug/m3	<0.24	0.81	12/20/16 09:00	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	12/20/16 09:00	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	12/20/16 09:00	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	12/20/16 09:00	
1,2-Dichlorobenzene	ug/m3	<0.51	3.1	12/20/16 09:00	
1,2-Dichloroethane	ug/m3	<0.20	0.41	12/20/16 09:00	
1,2-Dichloropropane	ug/m3	<0.27	0.94	12/20/16 09:00	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	12/20/16 09:00	
1,3-Butadiene	ug/m3	<0.18	0.45	12/20/16 09:00	
1,3-Dichlorobenzene	ug/m3	<0.53	3.1	12/20/16 09:00	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	12/20/16 09:00	
2-Butanone (MEK)	ug/m3	<0.23	3.0	12/20/16 09:00	
2-Hexanone	ug/m3	<0.41	4.2	12/20/16 09:00	
2-Propanol	ug/m3	0.37J	2.5	12/20/16 09:00	
4-Ethyltoluene	ug/m3	<0.19	1.0	12/20/16 09:00	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	12/20/16 09:00	
Acetone	ug/m3	<0.83	2.4	12/20/16 09:00	
Benzene	ug/m3	<0.12	0.32	12/20/16 09:00	
Benzyl chloride	ug/m3	<0.17	1.0	12/20/16 09:00	
Bromodichloromethane	ug/m3	<0.19	1.4	12/20/16 09:00	
Bromoform	ug/m3	<0.90	5.3	12/20/16 09:00	
Bromomethane	ug/m3	<0.31	0.79	12/20/16 09:00	
Carbon disulfide	ug/m3	<0.10	0.63	12/20/16 09:00	
Carbon tetrachloride	ug/m3	<0.19	1.3	12/20/16 09:00	
Chlorobenzene	ug/m3	<0.13	0.94	12/20/16 09:00	
Chloroethane	ug/m3	<0.19	0.54	12/20/16 09:00	
Chloroform	ug/m3	<0.19	0.50	12/20/16 09:00	
Chloromethane	ug/m3	<0.11	0.42	12/20/16 09:00	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	12/20/16 09:00	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	12/20/16 09:00	
Cyclohexane	ug/m3	<0.32	0.70	12/20/16 09:00	
Dibromochloromethane	ug/m3	<0.86	1.7	12/20/16 09:00	
Dichlorodifluoromethane	ug/m3	<0.48	1.0	12/20/16 09:00	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	12/20/16 09:00	
Ethanol	ug/m3	<0.26	0.96	12/20/16 09:00	
Ethyl acetate	ug/m3	<0.35	0.73	12/20/16 09:00	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

METHOD BLANK: 2477667 Matrix: Air
Associated Lab Samples: 10373675001, 10373675002, 10373675003, 10373675004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.42	0.88	12/20/16 09:00	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	12/20/16 09:00	
m&p-Xylene	ug/m3	<0.79	1.8	12/20/16 09:00	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	12/20/16 09:00	
Methylene Chloride	ug/m3	<0.54	3.5	12/20/16 09:00	
n-Heptane	ug/m3	<0.28	0.83	12/20/16 09:00	
n-Hexane	ug/m3	<0.36	0.72	12/20/16 09:00	
Naphthalene	ug/m3	<0.30	2.7	12/20/16 09:00	
o-Xylene	ug/m3	<0.35	0.88	12/20/16 09:00	
Propylene	ug/m3	<0.14	0.35	12/20/16 09:00	
Styrene	ug/m3	<0.19	0.87	12/20/16 09:00	
Tetrachloroethene	ug/m3	<0.28	0.69	12/20/16 09:00	
Tetrahydrofuran	ug/m3	<0.12	0.60	12/20/16 09:00	
Toluene	ug/m3	<0.15	0.77	12/20/16 09:00	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	12/20/16 09:00	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	12/20/16 09:00	
Trichloroethene	ug/m3	<0.28	0.55	12/20/16 09:00	
Trichlorofluoromethane	ug/m3	<0.13	1.1	12/20/16 09:00	
Vinyl acetate	ug/m3	<0.33	0.72	12/20/16 09:00	
Vinyl chloride	ug/m3	<0.20	0.26	12/20/16 09:00	

LABORATORY CONTROL SAMPLE: 2477668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	63.6	115	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	78.1	112	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	62.4	113	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	81.0	104	66-131	
1,1-Dichloroethane	ug/m3	41.1	43.3	105	62-139	
1,1-Dichloroethene	ug/m3	40.3	41.4	103	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.4	82.9	110	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	51.5	103	57-143	
1,2-Dibromoethane (EDB)	ug/m3	78.1	88.3	113	63-150	
1,2-Dichlorobenzene	ug/m3	61.1	68.0	111	57-141	
1,2-Dichloroethane	ug/m3	41.1	46.7	114	61-144	
1,2-Dichloropropane	ug/m3	47	51.0	109	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	57.5	115	54-147	
1,3-Butadiene	ug/m3	22.5	25.3	113	61-140	
1,3-Dichlorobenzene	ug/m3	61.1	62.3	102	51-150	
1,4-Dichlorobenzene	ug/m3	61.1	65.7	108	57-143	
2-Butanone (MEK)	ug/m3	30	34.7	116	66-144	
2-Hexanone	ug/m3	104	124	119	63-147	
2-Propanol	ug/m3	125	132	106	54-146	
4-Ethyltoluene	ug/m3	50	61.2	123	56-150	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

LABORATORY CONTROL SAMPLE: 2477668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	104	118	113	58-150	
Acetone	ug/m3	121	97.6	81	46-140	
Benzene	ug/m3	32.5	34.4	106	62-141	
Benzyl chloride	ug/m3	52.6	56.0	106	66-138	
Bromodichloromethane	ug/m3	68.1	77.7	114	58-149	
Bromoform	ug/m3	105	109	104	61-150	
Bromomethane	ug/m3	39.5	42.2	107	58-136	
Carbon disulfide	ug/m3	31.6	34.3	108	59-135	
Carbon tetrachloride	ug/m3	64	68.7	107	60-149	
Chlorobenzene	ug/m3	46.8	53.4	114	60-150	
Chloroethane	ug/m3	26.8	29.7	111	61-136	
Chloroform	ug/m3	49.6	50.7	102	65-138	
Chloromethane	ug/m3	21	22.1	105	62-133	
cis-1,2-Dichloroethene	ug/m3	40.3	41.9	104	65-139	
cis-1,3-Dichloropropene	ug/m3	46.1	53.8	117	61-149	
Cyclohexane	ug/m3	35	35.2	101	64-134	
Dibromochloromethane	ug/m3	86.6	109	126	59-150	
Dichlorodifluoromethane	ug/m3	50.3	51.9	103	63-134	
Dichlorotetrafluoroethane	ug/m3	71	75.5	106	62-134	
Ethanol	ug/m3	91.6	107	117	50-144	
Ethyl acetate	ug/m3	36.6	39.3	107	55-146	
Ethylbenzene	ug/m3	44.1	50.7	115	59-149	
Hexachloro-1,3-butadiene	ug/m3	108	123	114	42-150	
m&p-Xylene	ug/m3	88.3	94.2	107	59-146	
Methyl-tert-butyl ether	ug/m3	91.6	96.2	105	64-135	
Methylene Chloride	ug/m3	177	148	84	64-128	
n-Heptane	ug/m3	41.6	43.8	105	64-140	
n-Hexane	ug/m3	35.8	33.0	92	50-138	
Naphthalene	ug/m3	53.3	69.9	131	46-146	CH
o-Xylene	ug/m3	44.1	49.3	112	54-149	
Propylene	ug/m3	17.5	18.1	103	58-135	
Styrene	ug/m3	43.3	55.3	128	54-150	
Tetrachloroethene	ug/m3	68.9	71.3	103	60-142	
Tetrahydrofuran	ug/m3	30	33.0	110	56-143	
Toluene	ug/m3	38.3	41.0	107	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	43.5	108	67-137	
trans-1,3-Dichloropropene	ug/m3	46.1	59.8	130	59-145	
Trichloroethene	ug/m3	54.6	59.3	109	60-144	
Trichlorofluoromethane	ug/m3	57.1	57.3	100	59-134	
Vinyl acetate	ug/m3	35.8	39.6	111	55-143	
Vinyl chloride	ug/m3	26	28.4	109	63-135	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

SAMPLE DUPLICATE: 2478413

Parameter	Units	10373768001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.40		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.53		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.40		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<0.48		25	
1,1-Dichloroethane	ug/m3	ND	<0.25		25	
1,1-Dichloroethene	ug/m3	ND	<0.38		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<1.5		25	
1,2,4-Trimethylbenzene	ug/m3	11.3	11.6	3	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<1.2		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.82		25	
1,2-Dichloroethane	ug/m3	ND	<0.33		25	
1,2-Dichloropropane	ug/m3	ND	<0.43		25	
1,3,5-Trimethylbenzene	ug/m3	4.0	4.0	0	25	
1,3-Butadiene	ug/m3	ND	<0.28		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.85		25	
1,4-Dichlorobenzene	ug/m3	ND	<0.80		25	
2-Butanone (MEK)	ug/m3	ND	4.1J		25	
2-Hexanone	ug/m3	ND	<0.66		25	
2-Propanol	ug/m3	18.4	16.4	12	25	
4-Ethyltoluene	ug/m3	2.9	2.7	5	25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.35		25	
Acetone	ug/m3	34.2	34.1	0	25	
Benzene	ug/m3	0.58	0.55	5	25	
Benzyl chloride	ug/m3	ND	<0.27		25	
Bromodichloromethane	ug/m3	ND	<0.31		25	
Bromoform	ug/m3	ND	<1.5		25	
Bromomethane	ug/m3	ND	<0.50		25	
Carbon disulfide	ug/m3	ND	<0.16		25	
Carbon tetrachloride	ug/m3	ND	1.2J		25	
Chlorobenzene	ug/m3	ND	<0.22		25	
Chloroethane	ug/m3	ND	<0.31		25	
Chloroform	ug/m3	ND	<0.31		25	
Chloromethane	ug/m3	1.1	1.2	3	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.40		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.59		25	
Cyclohexane	ug/m3	ND	0.88J		25	
Dibromochloromethane	ug/m3	ND	<1.4		25	
Dichlorodifluoromethane	ug/m3	2.4	2.3	4	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.50		25	
Ethanol	ug/m3	12.0	11.0	9	25	
Ethyl acetate	ug/m3	ND	1.2J		25	
Ethylbenzene	ug/m3	2.1	2.1	1	25	
Hexachloro-1,3-butadiene	ug/m3	ND	<1.0		25	
m&p-Xylene	ug/m3	9.8	10.1	3	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.49		25	
Methylene Chloride	ug/m3	18.1	18.7	3	25	
n-Heptane	ug/m3	ND	1.1J		25	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

SAMPLE DUPLICATE: 2478413

Parameter	Units	10373768001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	2.0	2.0	1	25	
Naphthalene	ug/m3	ND	2.5J		25	
o-Xylene	ug/m3	3.1	3.2	2	25	
Propylene	ug/m3	ND	<0.22		25	
Styrene	ug/m3	2.8	2.8	1	25	
Tetrachloroethene	ug/m3	1.2	1.3	6	25	
Tetrahydrofuran	ug/m3	ND	<0.19		25	
Toluene	ug/m3	16.5	16.6	1	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.62		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.42		25	
Trichloroethene	ug/m3	ND	<0.44		25	
Trichlorofluoromethane	ug/m3	ND	1.2J		25	
Vinyl acetate	ug/m3	ND	<0.53		25	
Vinyl chloride	ug/m3	ND	<0.31		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: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60517316 Menona Riverfront Re.
Pace Project No.: 10373675

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10373675001	**TW-2**	TO-15	452646		
10373675002	**TW-1**	TO-15	452646		
10373675003	**TW-3**	TO-15	452646		
10373675004	**TW-4**	TO-15	452646		

10373675

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.

22651

Page: 1 of 1

Section A Required Client Information:

Company: AECOM Dr
Address: 1555 N RiverCenter Milw WI 53212
Email To: Lanette.Altenbach@aecom.com
Phone: 414-944 6186 Fax: 414-944 6051
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Lanette Altenback
Copy To:
Purchase Order No.:
Project Name: Menona Riverfront Redev.
Project Number: 60517316

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

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

Location of Sampling by State: WI

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

Report Level: II. X 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	TO15 Short List*	Pace Lab ID
1	TW-2	6C	1.5	12/13/16	3:00	12/13/16	3:31	27.5	4	23C0	FC1233							X			001
2	TW-1	6C	1.0	12/13/16	3:49	12/13/16	4:51	29	0	21542	FC1193							X			002
3	TW-3	6C	0	12/13/16	10:47	12/13/16	11:53	29	2	23652	FC0733							X			003
4	TW-4	6C	0.9	12/13/16	12:56	12/13/16	1:39	28	3	21622	FC0806							X			004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Ricinaz - AECOM	12/15/16	10:00AM	FedEx Courier	12/15/16	10:00am
			Pace	121916	0950

SAMPLE CONDITIONS

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

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

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: Aecom - WI

Project #: WO# : 10373675

10373675

Courier: ☒ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 6637 5040 4505

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

Optional: Proj. Due Date: Proj. Name:

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

Temp. (TO17 and TO13 samples only) (°C): \ **Corrected Temp (°C):** \ **Thermom. Used:** ☐ B88A912167504 ☐ B88A0143310098 ☐ 151401163 ☐ 151401164

Temp should be above freezing to 6°C **Correction Factor:** \ **Date & Initials of Person Examining Contents:** 12/19/16

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 1246 Passive				11.
Sample Labels Match COC?	☒ Yes	☒ No	☐ N/A	12. Can tags blank matched up by can# on coc

Samples Received:

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

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

Person Contacted: Date/Time:

Comments/Resolution: one unused can returned in separate shipment.

Project Manager Review: Carolyne Trent **Date:** 12/19/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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

December 28, 2016

Lanette Altenbach
AECOM, Inc.- Milwaukee
1555 N River Center Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Dear Lanette Altenbach:
Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

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: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40143613001	**TW-1**	Water	12/12/16 15:05	12/16/16 10:50
40143613002	**TW-2**	Water	12/12/16 16:59	12/16/16 10:50
40143613003	**TW-3**	Water	12/12/16 17:44	12/16/16 10:50
40143613004	**TW-4**	Water	12/12/16 19:15	12/16/16 10:50
40143613005	**WCS-1**	Solid	12/13/16 17:09	12/16/16 10:50
40143613006	**TRIP BLANK**	Water	12/13/16 00:00	12/16/16 10:50

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

SAMPLE ANALYTE COUNT

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40143613001	**TW-1**	EPA 8260	HNW	64	PASI-G
40143613002	**TW-2**	EPA 8260	HNW	64	PASI-G
40143613003	**TW-3**	EPA 8260	HNW	64	PASI-G
40143613004	**TW-4**	EPA 8260	HNW	64	PASI-G
40143613005	**WCS-1**	EPA 8082	BLM	10	PASI-G
		WI MOD DRO	ABF	1	PASI-G
		WI MOD GRO	ALD	1	PASI-G
		EPA 6010	DLB	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40143613006	**TRIP BLANK**	EPA 8260	HNW	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Sample: TW-1 **Lab ID: 40143613001** Collected: 12/12/16 15:05 Received: 12/16/16 10:50 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		12/20/16 12:15	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/20/16 12:15	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/20/16 12:15	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/20/16 12:15	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/20/16 12:15	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/20/16 12:15	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/20/16 12:15	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/20/16 12:15	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/20/16 12:15	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/20/16 12:15	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/20/16 12:15	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/20/16 12:15	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/20/16 12:15	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/20/16 12:15	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/20/16 12:15	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/20/16 12:15	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/20/16 12:15	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/20/16 12:15	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/20/16 12:15	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/20/16 12:15	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/20/16 12:15	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/20/16 12:15	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/20/16 12:15	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/20/16 12:15	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/20/16 12:15	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/20/16 12:15	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/20/16 12:15	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/20/16 12:15	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: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Sample: TW-1 **Lab ID: 40143613001** Collected: 12/12/16 15:05 Received: 12/16/16 10:50 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		12/20/16 12:15	79-34-5	
Tetrachloroethene	**16.4**	ug/L	1.0	0.50	1		12/20/16 12:15	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/20/16 12:15	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/20/16 12:15	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/20/16 12:15	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/20/16 12:15	79-01-6	
Trichlorofluoromethane	**3.6**	ug/L	1.0	0.18	1		12/20/16 12:15	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/20/16 12:15	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/20/16 12:15	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		12/20/16 12:15	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		12/20/16 12:15	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		12/20/16 12:15	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: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Sample: TW-2 **Lab ID: 40143613002** Collected: 12/12/16 16:59 Received: 12/16/16 10:50 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		12/20/16 12:38	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/20/16 12:38	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/20/16 12:38	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/20/16 12:38	74-83-9	
n-Butylbenzene	**4.2**	ug/L	1.0	0.50	1		12/20/16 12:38	104-51-8	
sec-Butylbenzene	**3.8J**	ug/L	5.0	2.2	1		12/20/16 12:38	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/20/16 12:38	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/20/16 12:38	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/20/16 12:38	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/20/16 12:38	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/20/16 12:38	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/20/16 12:38	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/20/16 12:38	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/20/16 12:38	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/20/16 12:38	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/20/16 12:38	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/20/16 12:38	75-35-4	
cis-1,2-Dichloroethene	**10.5**	ug/L	1.0	0.26	1		12/20/16 12:38	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/20/16 12:38	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/20/16 12:38	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/20/16 12:38	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/20/16 12:38	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/20/16 12:38	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	108-20-3	
Ethylbenzene	**10.3**	ug/L	1.0	0.50	1		12/20/16 12:38	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/20/16 12:38	87-68-3	
Isopropylbenzene (Cumene)	**4.1**	ug/L	1.0	0.14	1		12/20/16 12:38	98-82-8	
p-Isopropyltoluene	**2.4**	ug/L	1.0	0.50	1		12/20/16 12:38	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/20/16 12:38	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/20/16 12:38	1634-04-4	
Naphthalene	**36.2**	ug/L	5.0	2.5	1		12/20/16 12:38	91-20-3	
n-Propylbenzene	**5.5**	ug/L	1.0	0.50	1		12/20/16 12:38	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/20/16 12:38	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: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Sample: TW-2 **Lab ID: 40143613002** Collected: 12/12/16 16:59 Received: 12/16/16 10:50 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		12/20/16 12:38	79-34-5	
Tetrachloroethene	**49.3**	ug/L	1.0	0.50	1		12/20/16 12:38	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/20/16 12:38	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/20/16 12:38	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/20/16 12:38	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/20/16 12:38	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/20/16 12:38	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 12:38	96-18-4	
1,2,4-Trimethylbenzene	**23.1**	ug/L	1.0	0.50	1		12/20/16 12:38	95-63-6	
1,3,5-Trimethylbenzene	**6.9**	ug/L	1.0	0.50	1		12/20/16 12:38	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/20/16 12:38	75-01-4	
m&p-Xylene	**5.1**	ug/L	2.0	1.0	1		12/20/16 12:38	179601-23-1	
o-Xylene	**1.8**	ug/L	1.0	0.50	1		12/20/16 12:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/20/16 12:38	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		12/20/16 12:38	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		12/20/16 12:38	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: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Sample: TW-3 **Lab ID: 40143613003** Collected: 12/12/16 17:44 Received: 12/16/16 10:50 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		12/20/16 13:00	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/20/16 13:00	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/20/16 13:00	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/20/16 13:00	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/20/16 13:00	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/20/16 13:00	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/20/16 13:00	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/20/16 13:00	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/20/16 13:00	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/20/16 13:00	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/20/16 13:00	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/20/16 13:00	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/20/16 13:00	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/20/16 13:00	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/20/16 13:00	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/20/16 13:00	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/20/16 13:00	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/20/16 13:00	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/20/16 13:00	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/20/16 13:00	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/20/16 13:00	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/20/16 13:00	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/20/16 13:00	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/20/16 13:00	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/20/16 13:00	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/20/16 13:00	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/20/16 13:00	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/20/16 13:00	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: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Sample: TW-3 **Lab ID: 40143613003** Collected: 12/12/16 17:44 Received: 12/16/16 10:50 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		12/20/16 13:00	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/20/16 13:00	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/20/16 13:00	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/20/16 13:00	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/20/16 13:00	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/20/16 13:00	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/20/16 13:00	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/20/16 13:00	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		12/20/16 13:00	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		12/20/16 13:00	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		12/20/16 13:00	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: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Sample: TW-4 **Lab ID: 40143613004** Collected: 12/12/16 19:15 Received: 12/16/16 10:50 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		12/20/16 13:22	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/20/16 13:22	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/20/16 13:22	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/20/16 13:22	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/20/16 13:22	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/20/16 13:22	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/20/16 13:22	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/20/16 13:22	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/20/16 13:22	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/20/16 13:22	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/20/16 13:22	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/20/16 13:22	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/20/16 13:22	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/20/16 13:22	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/20/16 13:22	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/20/16 13:22	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/20/16 13:22	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/20/16 13:22	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/20/16 13:22	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/20/16 13:22	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/20/16 13:22	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/20/16 13:22	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/20/16 13:22	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/20/16 13:22	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/20/16 13:22	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/20/16 13:22	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/20/16 13:22	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/20/16 13:22	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: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Sample: TW-4 **Lab ID: 40143613004** Collected: 12/12/16 19:15 Received: 12/16/16 10:50 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		12/20/16 13:22	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	127-18-4	
Toluene	**0.60J**	ug/L	1.0	0.50	1		12/20/16 13:22	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/20/16 13:22	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/20/16 13:22	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/20/16 13:22	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/20/16 13:22	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/20/16 13:22	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/20/16 13:22	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/20/16 13:22	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 13:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		12/20/16 13:22	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		12/20/16 13:22	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		12/20/16 13:22	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: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Sample: WCS-1 **Lab ID: 40143613005** Collected: 12/13/16 17:09 Received: 12/16/16 10:50 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
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<29.5**	ug/kg	58.9	29.5	1	12/19/16 12:35	12/20/16 08:42	12674-11-2	
PCB-1221 (Aroclor 1221)	**<29.5**	ug/kg	58.9	29.5	1	12/19/16 12:35	12/20/16 08:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<29.5**	ug/kg	58.9	29.5	1	12/19/16 12:35	12/20/16 08:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<29.5**	ug/kg	58.9	29.5	1	12/19/16 12:35	12/20/16 08:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**<29.5**	ug/kg	58.9	29.5	1	12/19/16 12:35	12/20/16 08:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**<29.5**	ug/kg	58.9	29.5	1	12/19/16 12:35	12/20/16 08:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**<29.5**	ug/kg	58.9	29.5	1	12/19/16 12:35	12/20/16 08:42	11096-82-5	
PCB, Total	**<29.5**	ug/kg	58.9	29.5	1	12/19/16 12:35	12/20/16 08:42	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	63-130		1	12/19/16 12:35	12/20/16 08:42	877-09-8	
Decachlorobiphenyl (S)	89	%	48-130		1	12/19/16 12:35	12/20/16 08:42	2051-24-3	
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**<1.2**	mg/kg	2.9	1.2	1	12/22/16 09:08	12/27/16 15:21		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.9**	mg/kg	2.9	2.9	1	12/20/16 06:30	12/20/16 09:01		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**<1.2**	mg/kg	5.9	1.2	1	12/19/16 09:57	12/20/16 15:53	7440-38-2	
Barium	**3.4**	mg/kg	0.59	0.18	1	12/19/16 09:57	12/20/16 15:53	7440-39-3	
Cadmium	**<0.16**	mg/kg	0.59	0.16	1	12/19/16 09:57	12/20/16 15:53	7440-43-9	
Chromium	**2.5**	mg/kg	1.2	0.33	1	12/19/16 09:57	12/20/16 15:53	7440-47-3	
Lead	**2.0**	mg/kg	1.5	0.51	1	12/19/16 09:57	12/20/16 15:53	7439-92-1	
Selenium	**<1.3**	mg/kg	5.9	1.3	1	12/19/16 09:57	12/20/16 15:53	7782-49-2	
Silver	**<0.41**	mg/kg	1.2	0.41	1	12/19/16 09:57	12/20/16 15:53	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.012**	mg/kg	0.040	0.012	1	12/20/16 08:10	12/20/16 12:22	7439-97-6	
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	12/19/16 08:00	12/20/16 08:55	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	12/19/16 08:00	12/20/16 08:55	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	12/19/16 08:00	12/20/16 08:55	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	12/19/16 08:00	12/20/16 08:55	67-66-3	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Sample: WCS-1 **Lab ID: 40143613005** Collected: 12/13/16 17:09 Received: 12/16/16 10:50 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								
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	74-87-3	L2,W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	12/19/16 08:00	12/20/16 08:55	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	75-71-8	L2,W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	12/19/16 08:00	12/20/16 08:55	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	12/19/16 08:00	12/20/16 08:55	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	108-67-8	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Sample: WCS-1 **Lab ID: 40143613005** Collected: 12/13/16 17:09 Received: 12/16/16 10:50 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								
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	12/19/16 08:00	12/20/16 08:55	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	12/19/16 08:00	12/20/16 08:55	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	84	%	53-165		1	12/19/16 08:00	12/20/16 08:55	1868-53-7	
Toluene-d8 (S)	93	%	54-163		1	12/19/16 08:00	12/20/16 08:55	2037-26-5	
4-Bromofluorobenzene (S)	85	%	48-138		1	12/19/16 08:00	12/20/16 08:55	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.2**	%	0.10	0.10	1		12/19/16 10:47		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Sample: TRIP BLANK **Lab ID: 40143613006** Collected: 12/13/16 00:00 Received: 12/16/16 10:50 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		12/20/16 14:52	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/20/16 14:52	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/20/16 14:52	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/20/16 14:52	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/20/16 14:52	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/20/16 14:52	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/20/16 14:52	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/20/16 14:52	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/20/16 14:52	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/20/16 14:52	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/20/16 14:52	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/20/16 14:52	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/20/16 14:52	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/20/16 14:52	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/20/16 14:52	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/20/16 14:52	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/20/16 14:52	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/20/16 14:52	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/20/16 14:52	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/20/16 14:52	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/20/16 14:52	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/20/16 14:52	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/20/16 14:52	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/20/16 14:52	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/20/16 14:52	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/20/16 14:52	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/20/16 14:52	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/20/16 14:52	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: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Sample: TRIP BLANK **Lab ID: 40143613006** Collected: 12/13/16 00:00 Received: 12/16/16 10:50 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		12/20/16 14:52	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/20/16 14:52	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/20/16 14:52	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/20/16 14:52	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/20/16 14:52	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/20/16 14:52	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/20/16 14:52	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/20/16 14:52	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/20/16 14:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		12/20/16 14:52	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		12/20/16 14:52	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		12/20/16 14:52	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: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

QC Batch: 244578 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40143613005

METHOD BLANK: 1448054 Matrix: Solid
Associated Lab Samples: 40143613005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	<1.6	2.5	12/20/16 07:45	
a,a,a-Trifluorotoluene (S)	%	99	80-120	12/20/16 07:45	

LABORATORY CONTROL SAMPLE & LCSD: 1448055 1448056

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	10	11.3	10.8	113	108	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				99	99	80-120			

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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

QC Batch: 244544
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 40143613005

METHOD BLANK: 1447958
Matrix: Solid
Associated Lab Samples: 40143613005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.011	0.037	12/20/16 11:28	

LABORATORY CONTROL SAMPLE: 1447959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.83	0.82	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1447960 1447961

Parameter	Units	40124971001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	1.6	1.7	1.7	2.7	2.1	63	30	85-115	24	20	M0,R1

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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

QC Batch: 244501
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 40143613005

METHOD BLANK: 1447821
Matrix: Solid
Associated Lab Samples: 40143613005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.0	5.0	12/20/16 15:49	
Barium	mg/kg	<0.15	0.50	12/20/16 15:49	
Cadmium	mg/kg	<0.13	0.50	12/20/16 15:49	
Chromium	mg/kg	<0.28	1.0	12/20/16 15:49	
Lead	mg/kg	<0.43	1.3	12/20/16 15:49	
Selenium	mg/kg	<1.1	5.0	12/20/16 15:49	
Silver	mg/kg	<0.34	1.0	12/20/16 15:49	

LABORATORY CONTROL SAMPLE: 1447822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	49.1	98	80-120	
Barium	mg/kg	50	51.8	104	80-120	
Cadmium	mg/kg	50	50.2	100	80-120	
Chromium	mg/kg	50	49.0	98	80-120	
Lead	mg/kg	50	47.8	96	80-120	
Selenium	mg/kg	50	48.6	97	80-120	
Silver	mg/kg	25	24.3	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1447823 1447824

Parameter	Units	40143613005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	<1.2	58.9	58.7	58.6	61.3	98	103	75-125	5	20	
Barium	mg/kg	3.4	58.9	58.7	62.8	65.9	101	106	75-125	5	20	
Cadmium	mg/kg	<0.16	58.9	58.7	59.0	61.0	100	104	75-125	3	20	
Chromium	mg/kg	2.5	58.9	58.7	57.1	60.2	93	98	75-125	5	20	
Lead	mg/kg	2.0	58.9	58.7	56.6	58.4	93	96	75-125	3	20	
Selenium	mg/kg	<1.3	58.9	58.7	57.0	59.5	97	101	75-125	4	20	
Silver	mg/kg	<0.41	29.5	29.4	28.1	29.4	95	100	75-125	4	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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

QC Batch: 244536
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40143613005

METHOD BLANK: 1447936
Matrix: Solid
Associated Lab Samples: 40143613005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	12/19/16 09:48	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	12/19/16 09:48	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	12/19/16 09:48	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	12/19/16 09:48	
1,1-Dichloroethane	ug/kg	<17.6	50.0	12/19/16 09:48	
1,1-Dichloroethene	ug/kg	<17.6	50.0	12/19/16 09:48	
1,1-Dichloropropene	ug/kg	<14.0	50.0	12/19/16 09:48	
1,2,3-Trichlorobenzene	ug/kg	39.8J	50.0	12/19/16 09:48	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	12/19/16 09:48	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	12/19/16 09:48	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	12/19/16 09:48	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	12/19/16 09:48	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	12/19/16 09:48	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	12/19/16 09:48	
1,2-Dichloroethane	ug/kg	<15.0	50.0	12/19/16 09:48	
1,2-Dichloropropane	ug/kg	<16.8	50.0	12/19/16 09:48	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	12/19/16 09:48	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	12/19/16 09:48	
1,3-Dichloropropane	ug/kg	<12.0	50.0	12/19/16 09:48	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	12/19/16 09:48	
2,2-Dichloropropane	ug/kg	<12.6	50.0	12/19/16 09:48	
2-Chlorotoluene	ug/kg	<15.8	50.0	12/19/16 09:48	
4-Chlorotoluene	ug/kg	<13.0	50.0	12/19/16 09:48	
Benzene	ug/kg	<9.2	20.0	12/19/16 09:48	
Bromobenzene	ug/kg	<20.6	50.0	12/19/16 09:48	
Bromochloromethane	ug/kg	<21.4	50.0	12/19/16 09:48	
Bromodichloromethane	ug/kg	<9.8	50.0	12/19/16 09:48	
Bromoform	ug/kg	<19.8	50.0	12/19/16 09:48	
Bromomethane	ug/kg	<69.9	250	12/19/16 09:48	
Carbon tetrachloride	ug/kg	<12.1	50.0	12/19/16 09:48	
Chlorobenzene	ug/kg	<14.8	50.0	12/19/16 09:48	
Chloroethane	ug/kg	<67.0	250	12/19/16 09:48	
Chloroform	ug/kg	<46.4	250	12/19/16 09:48	
Chloromethane	ug/kg	<20.4	50.0	12/19/16 09:48	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	12/19/16 09:48	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	12/19/16 09:48	
Dibromochloromethane	ug/kg	<17.9	50.0	12/19/16 09:48	
Dibromomethane	ug/kg	<19.3	50.0	12/19/16 09:48	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	12/19/16 09:48	
Diisopropyl ether	ug/kg	<17.7	50.0	12/19/16 09:48	
Ethylbenzene	ug/kg	<12.4	50.0	12/19/16 09:48	

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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

METHOD BLANK: 1447936 Matrix: Solid
Associated Lab Samples: 40143613005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	58.7	50.0	12/19/16 09:48	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	12/19/16 09:48	
m&p-Xylene	ug/kg	<34.4	100	12/19/16 09:48	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	12/19/16 09:48	
Methylene Chloride	ug/kg	<16.2	50.0	12/19/16 09:48	
n-Butylbenzene	ug/kg	16.9J	50.0	12/19/16 09:48	
n-Propylbenzene	ug/kg	<11.6	50.0	12/19/16 09:48	
Naphthalene	ug/kg	<40.0	250	12/19/16 09:48	
o-Xylene	ug/kg	<14.0	50.0	12/19/16 09:48	
p-Isopropyltoluene	ug/kg	<12.0	50.0	12/19/16 09:48	
sec-Butylbenzene	ug/kg	<11.9	50.0	12/19/16 09:48	
Styrene	ug/kg	<9.0	50.0	12/19/16 09:48	
tert-Butylbenzene	ug/kg	<9.5	50.0	12/19/16 09:48	
Tetrachloroethene	ug/kg	<12.9	50.0	12/19/16 09:48	
Toluene	ug/kg	<11.2	50.0	12/19/16 09:48	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	12/19/16 09:48	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	12/19/16 09:48	
Trichloroethene	ug/kg	<23.6	50.0	12/19/16 09:48	
Trichlorofluoromethane	ug/kg	<24.7	50.0	12/19/16 09:48	
Vinyl chloride	ug/kg	<21.1	50.0	12/19/16 09:48	
4-Bromofluorobenzene (S)	%	89	48-138	12/19/16 09:48	
Dibromofluoromethane (S)	%	93	53-165	12/19/16 09:48	
Toluene-d8 (S)	%	101	54-163	12/19/16 09:48	

LABORATORY CONTROL SAMPLE: 1447937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2170	87	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2690	107	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2570	103	70-130	
1,1-Dichloroethane	ug/kg	2500	2130	85	70-133	
1,1-Dichloroethene	ug/kg	2500	1810	72	70-130	
1,2,4-Trichlorobenzene	ug/kg	2500	2330	93	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2460	98	50-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2700	108	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2340	94	70-130	
1,2-Dichloroethane	ug/kg	2500	2400	96	70-138	
1,2-Dichloropropane	ug/kg	2500	2220	89	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2260	90	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2250	90	70-130	
Benzene	ug/kg	2500	2210	88	70-130	
Bromodichloromethane	ug/kg	2500	2390	96	70-130	
Bromoform	ug/kg	2500	2310	92	68-130	
Bromomethane	ug/kg	2500	1660	67	25-163	

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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

LABORATORY CONTROL SAMPLE: 1447937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2180	87	70-130	
Chlorobenzene	ug/kg	2500	2380	95	70-130	
Chloroethane	ug/kg	2500	1880	75	34-151	
Chloroform	ug/kg	2500	2190	88	70-130	
Chloromethane	ug/kg	2500	1260	51	52-130	L0
cis-1,2-Dichloroethene	ug/kg	2500	2090	84	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2310	93	70-130	
Dibromochloromethane	ug/kg	2500	2310	92	70-130	
Dichlorodifluoromethane	ug/kg	2500	637	25	27-150	L0
Ethylbenzene	ug/kg	2500	2420	97	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2370	95	70-130	
m&p-Xylene	ug/kg	5000	4880	98	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2500	100	70-130	
Methylene Chloride	ug/kg	2500	1970	79	70-131	
o-Xylene	ug/kg	2500	2380	95	70-130	
Styrene	ug/kg	2500	2510	100	70-130	
Tetrachloroethene	ug/kg	2500	2440	98	70-130	
Toluene	ug/kg	2500	2370	95	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	1900	76	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2350	94	70-130	
Trichloroethene	ug/kg	2500	2110	85	70-130	
Trichlorofluoromethane	ug/kg	2500	2110	84	50-150	
Vinyl chloride	ug/kg	2500	1520	61	57-130	
4-Bromofluorobenzene (S)	%			96	48-138	
Dibromofluoromethane (S)	%			100	53-165	
Toluene-d8 (S)	%			103	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1447938 1447939

Parameter	Units	40143621002 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	1230	1180	82	79	70-130	4	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1500	1500	1550	1770	104	118	70-130	13	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1500	1500	1410	1480	94	99	70-130	5	20	
1,1-Dichloroethane	ug/kg	<25.0	1500	1500	1380	1250	92	84	64-133	10	20	
1,1-Dichloroethene	ug/kg	<25.0	1500	1500	1040	931	70	62	56-130	11	24	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1500	1500	1770	1800	115	117	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1500	1500	1530	1700	102	114	50-150	11	20	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1500	1500	1480	1620	99	108	70-130	9	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1500	1500	1610	1540	106	101	70-130	5	20	
1,2-Dichloroethane	ug/kg	<25.0	1500	1500	1480	1420	99	95	70-138	4	20	
1,2-Dichloropropane	ug/kg	<25.0	1500	1500	1550	1390	104	93	70-130	11	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1500	1500	1590	1510	106	101	70-130	5	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1500	1500	1560	1480	102	97	70-130	5	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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1447938 1447939

Parameter	Units	40143621002 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	1360	1330	91	89	70-130	2	20	
Bromodichloromethane	ug/kg	<25.0	1500	1500	1570	1420	105	95	70-130	10	20	
Bromoform	ug/kg	<25.0	1500	1500	1310	1490	87	99	65-130	13	20	
Bromomethane	ug/kg	<69.9	1500	1500	1380	1190	92	79	11-163	15	21	
Carbon tetrachloride	ug/kg	<25.0	1500	1500	1240	1160	83	78	70-130	6	20	
Chlorobenzene	ug/kg	<25.0	1500	1500	1470	1460	98	97	70-130	1	20	
Chloroethane	ug/kg	<67.0	1500	1500	1390	1370	93	92	17-151	2	20	
Chloroform	ug/kg	<46.4	1500	1500	1350	1310	90	88	70-130	3	20	
Chloromethane	ug/kg	<25.0	1500	1500	1120	1110	75	74	13-130	1	20	
cis-1,2-Dichloroethene	ug/kg	209	1500	1500	1530	1470	88	84	70-130	4	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1500	1500	1470	1400	98	94	70-130	5	20	
Dibromochloromethane	ug/kg	<25.0	1500	1500	1440	1490	96	99	70-130	3	20	
Dichlorodifluoromethane	ug/kg	<25.0	1500	1500	715	651	48	43	10-150	9	21	
Ethylbenzene	ug/kg	<25.0	1500	1500	1450	1380	96	92	70-130	5	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1500	1500	1370	1340	91	89	70-130	2	20	
m&p-Xylene	ug/kg	<50.0	3000	3000	2960	2920	98	97	70-130	1	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1500	1500	1440	1520	96	101	70-130	6	20	
Methylene Chloride	ug/kg	<25.0	1500	1500	1280	1260	85	84	70-131	1	20	
o-Xylene	ug/kg	<25.0	1500	1500	1450	1400	96	93	70-130	3	20	
Styrene	ug/kg	<25.0	1500	1500	1440	1430	96	96	70-130	0	20	
Tetrachloroethene	ug/kg	5630	1500	1500	6950	7440	88	121	70-130	7	20	
Toluene	ug/kg	<25.0	1500	1500	1460	1420	97	95	70-130	3	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1500	1500	1280	1260	86	84	70-130	2	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1500	1500	1350	1470	90	98	70-130	9	20	
Trichloroethene	ug/kg	150	1500	1500	1590	1410	96	84	70-130	13	20	
Trichlorofluoromethane	ug/kg	<25.0	1500	1500	1100	1260	73	84	40-150	14	31	
Vinyl chloride	ug/kg	<25.0	1500	1500	1130	1030	75	69	26-130	8	20	
4-Bromofluorobenzene (S)	%						91	96	48-138			
Dibromofluoromethane (S)	%						99	96	53-165			
Toluene-d8 (S)	%						99	103	54-163			

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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

QC Batch: 244559 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40143613001, 40143613002, 40143613003, 40143613004, 40143613006

METHOD BLANK: 1447983 Matrix: Water
Associated Lab Samples: 40143613001, 40143613002, 40143613003, 40143613004, 40143613006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	12/20/16 07:46	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/20/16 07:46	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	12/20/16 07:46	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	12/20/16 07:46	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/20/16 07:46	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/20/16 07:46	
1,1-Dichloropropene	ug/L	<0.44	1.0	12/20/16 07:46	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	12/20/16 07:46	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	12/20/16 07:46	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	12/20/16 07:46	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	12/20/16 07:46	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	12/20/16 07:46	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	12/20/16 07:46	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	12/20/16 07:46	
1,2-Dichloroethane	ug/L	<0.17	1.0	12/20/16 07:46	
1,2-Dichloropropane	ug/L	<0.23	1.0	12/20/16 07:46	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	12/20/16 07:46	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	12/20/16 07:46	
1,3-Dichloropropane	ug/L	<0.50	1.0	12/20/16 07:46	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	12/20/16 07:46	
2,2-Dichloropropane	ug/L	<0.48	1.0	12/20/16 07:46	
2-Chlorotoluene	ug/L	<0.50	1.0	12/20/16 07:46	
4-Chlorotoluene	ug/L	<0.21	1.0	12/20/16 07:46	
Benzene	ug/L	<0.50	1.0	12/20/16 07:46	
Bromobenzene	ug/L	<0.23	1.0	12/20/16 07:46	
Bromochloromethane	ug/L	<0.34	1.0	12/20/16 07:46	
Bromodichloromethane	ug/L	<0.50	1.0	12/20/16 07:46	
Bromoform	ug/L	<0.50	1.0	12/20/16 07:46	
Bromomethane	ug/L	<2.4	5.0	12/20/16 07:46	
Carbon tetrachloride	ug/L	<0.50	1.0	12/20/16 07:46	
Chlorobenzene	ug/L	<0.50	1.0	12/20/16 07:46	
Chloroethane	ug/L	<0.37	1.0	12/20/16 07:46	
Chloroform	ug/L	<2.5	5.0	12/20/16 07:46	
Chloromethane	ug/L	<0.50	1.0	12/20/16 07:46	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	12/20/16 07:46	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	12/20/16 07:46	
Dibromochloromethane	ug/L	<0.50	1.0	12/20/16 07:46	
Dibromomethane	ug/L	<0.43	1.0	12/20/16 07:46	
Dichlorodifluoromethane	ug/L	<0.22	1.0	12/20/16 07:46	
Diisopropyl ether	ug/L	<0.50	1.0	12/20/16 07:46	
Ethylbenzene	ug/L	<0.50	1.0	12/20/16 07:46	

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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

METHOD BLANK: 1447983 Matrix: Water
Associated Lab Samples: 40143613001, 40143613002, 40143613003, 40143613004, 40143613006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	12/20/16 07:46	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	12/20/16 07:46	
m&p-Xylene	ug/L	<1.0	2.0	12/20/16 07:46	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	12/20/16 07:46	
Methylene Chloride	ug/L	<0.23	1.0	12/20/16 07:46	
n-Butylbenzene	ug/L	<0.50	1.0	12/20/16 07:46	
n-Propylbenzene	ug/L	<0.50	1.0	12/20/16 07:46	
Naphthalene	ug/L	<2.5	5.0	12/20/16 07:46	
o-Xylene	ug/L	<0.50	1.0	12/20/16 07:46	
p-Isopropyltoluene	ug/L	<0.50	1.0	12/20/16 07:46	
sec-Butylbenzene	ug/L	<2.2	5.0	12/20/16 07:46	
Styrene	ug/L	<0.50	1.0	12/20/16 07:46	
tert-Butylbenzene	ug/L	<0.18	1.0	12/20/16 07:46	
Tetrachloroethene	ug/L	<0.50	1.0	12/20/16 07:46	
Toluene	ug/L	<0.50	1.0	12/20/16 07:46	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	12/20/16 07:46	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	12/20/16 07:46	
Trichloroethene	ug/L	<0.33	1.0	12/20/16 07:46	
Trichlorofluoromethane	ug/L	<0.18	1.0	12/20/16 07:46	
Vinyl chloride	ug/L	<0.18	1.0	12/20/16 07:46	
4-Bromofluorobenzene (S)	%	84	70-130	12/20/16 07:46	
Dibromofluoromethane (S)	%	113	70-130	12/20/16 07:46	
Toluene-d8 (S)	%	90	70-130	12/20/16 07:46	

LABORATORY CONTROL SAMPLE: 1447984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.1	116	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	46.8	94	67-130	
1,1,2-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1-Dichloroethane	ug/L	50	52.0	104	70-133	
1,1-Dichloroethene	ug/L	50	52.7	105	70-130	
1,2,4-Trichlorobenzene	ug/L	50	42.8	86	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.1	84	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	52.1	104	70-130	
1,2-Dichlorobenzene	ug/L	50	46.4	93	70-130	
1,2-Dichloroethane	ug/L	50	53.0	106	70-130	
1,2-Dichloropropane	ug/L	50	50.1	100	70-130	
1,3-Dichlorobenzene	ug/L	50	44.5	89	70-130	
1,4-Dichlorobenzene	ug/L	50	47.4	95	70-130	
Benzene	ug/L	50	54.2	108	60-135	
Bromodichloromethane	ug/L	50	51.8	104	70-130	
Bromoform	ug/L	50	48.1	96	70-130	
Bromomethane	ug/L	50	34.6	69	33-130	

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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

LABORATORY CONTROL SAMPLE: 1447984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	53.0	106	70-138	
Chlorobenzene	ug/L	50	51.9	104	70-130	
Chloroethane	ug/L	50	53.0	106	51-130	
Chloroform	ug/L	50	56.3	113	70-130	
Chloromethane	ug/L	50	38.1	76	25-132	
cis-1,2-Dichloroethene	ug/L	50	56.6	113	69-130	
cis-1,3-Dichloropropene	ug/L	50	44.4	89	70-130	
Dibromochloromethane	ug/L	50	53.2	106	70-130	
Dichlorodifluoromethane	ug/L	50	28.1	56	23-130	
Ethylbenzene	ug/L	50	51.3	103	70-136	
Isopropylbenzene (Cumene)	ug/L	50	53.9	108	70-140	
m&p-Xylene	ug/L	100	109	109	70-138	
Methyl-tert-butyl ether	ug/L	50	55.0	110	66-138	
Methylene Chloride	ug/L	50	54.1	108	70-130	
o-Xylene	ug/L	50	54.1	108	70-134	
Styrene	ug/L	50	51.6	103	70-133	
Tetrachloroethene	ug/L	50	51.7	103	70-138	
Toluene	ug/L	50	51.0	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	56.5	113	70-131	
trans-1,3-Dichloropropene	ug/L	50	43.4	87	69-130	
Trichloroethene	ug/L	50	51.6	103	70-130	
Trichlorofluoromethane	ug/L	50	55.8	112	50-150	
Vinyl chloride	ug/L	50	45.7	91	49-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			113	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1447993 1447994

Parameter	Units	40143590001 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	<0.50	50	50	59.7	59.6	119	119	70-134	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	50.0	49.9	100	100	67-130	0	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	53.5	52.2	107	104	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	54.2	54.5	108	109	70-134	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	55.2	55.4	110	111	68-136	0	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	48.7	48.6	97	97	62-139	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	47.2	47.3	94	95	50-150	0	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	54.3	54.6	109	109	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	48.4	47.5	97	95	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	54.5	54.8	109	110	70-130	0	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	50.8	51.4	102	103	70-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	46.4	45.9	93	92	70-131	1	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	48.6	48.5	97	97	70-130	0	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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1447993 1447994

Parameter	Units	40143590001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	54.9	54.6	110	109	57-138	0	20	
Bromodichloromethane	ug/L	<0.50	50	50	52.4	52.8	105	106	70-130	1	20	
Bromoform	ug/L	<0.50	50	50	49.7	49.6	99	99	70-130	0	20	
Bromomethane	ug/L	<2.4	50	50	41.7	46.1	83	92	33-130	10	27	
Carbon tetrachloride	ug/L	<0.50	50	50	54.5	53.6	109	107	70-138	2	20	
Chlorobenzene	ug/L	<0.50	50	50	53.2	52.8	106	106	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	55.8	54.0	112	108	51-130	3	20	
Chloroform	ug/L	<2.5	50	50	58.1	57.8	116	116	70-130	0	20	
Chloromethane	ug/L	<0.50	50	50	37.7	38.5	75	77	25-132	2	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	58.4	58.3	117	117	61-140	0	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	45.4	45.5	91	91	70-130	0	20	
Dibromochloromethane	ug/L	<0.50	50	50	55.4	54.6	111	109	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	27.4	27.7	55	55	23-130	1	20	
Ethylbenzene	ug/L	<0.50	50	50	52.7	52.3	105	105	70-138	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	55.4	55.1	111	110	70-152	1	20	
m&p-Xylene	ug/L	<1.0	100	100	112	111	112	111	70-140	1	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	58.2	58.8	116	118	66-139	1	20	
Methylene Chloride	ug/L	<0.23	50	50	56.1	57.2	112	114	70-130	2	20	
o-Xylene	ug/L	<0.50	50	50	55.1	54.8	110	110	70-134	1	20	
Styrene	ug/L	<0.50	50	50	52.9	52.5	106	105	70-138	1	20	
Tetrachloroethene	ug/L	<0.50	50	50	53.2	52.5	106	105	70-148	1	20	
Toluene	ug/L	<0.50	50	50	53.0	52.3	106	105	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	58.6	59.5	117	119	70-133	2	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	45.3	44.9	91	90	69-130	1	20	
Trichloroethene	ug/L	<0.33	50	50	52.5	52.4	105	105	70-131	0	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	57.1	57.6	114	115	50-150	1	20	
Vinyl chloride	ug/L	<0.18	50	50	47.6	48.3	95	97	49-133	1	20	
4-Bromofluorobenzene (S)	%						102	101	70-130			
Dibromofluoromethane (S)	%						115	115	70-130			
Toluene-d8 (S)	%						93	93	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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

QC Batch: 244529
QC Batch Method: EPA 3541
Analysis Method: EPA 8082
Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40143613005

METHOD BLANK: 1447909
Matrix: Solid
Associated Lab Samples: 40143613005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<25.0	50.0	12/20/16 07:15	
PCB-1221 (Aroclor 1221)	ug/kg	<25.0	50.0	12/20/16 07:15	
PCB-1232 (Aroclor 1232)	ug/kg	<25.0	50.0	12/20/16 07:15	
PCB-1242 (Aroclor 1242)	ug/kg	<25.0	50.0	12/20/16 07:15	
PCB-1248 (Aroclor 1248)	ug/kg	<25.0	50.0	12/20/16 07:15	
PCB-1254 (Aroclor 1254)	ug/kg	<25.0	50.0	12/20/16 07:15	
PCB-1260 (Aroclor 1260)	ug/kg	<25.0	50.0	12/20/16 07:15	
Decachlorobiphenyl (S)	%	87	48-130	12/20/16 07:15	
Tetrachloro-m-xylene (S)	%	81	63-130	12/20/16 07:15	

LABORATORY CONTROL SAMPLE: 1447910

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<25.0			
PCB-1221 (Aroclor 1221)	ug/kg		<25.0			
PCB-1232 (Aroclor 1232)	ug/kg		<25.0			
PCB-1242 (Aroclor 1242)	ug/kg		<25.0			
PCB-1248 (Aroclor 1248)	ug/kg		<25.0			
PCB-1254 (Aroclor 1254)	ug/kg		<25.0			
PCB-1260 (Aroclor 1260)	ug/kg	500	422	84	55-130	
Decachlorobiphenyl (S)	%			93	48-130	
Tetrachloro-m-xylene (S)	%			85	63-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1447911 1447912

Parameter	Units	40143613005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<29.5			<29.5	<29.5					20	
PCB-1221 (Aroclor 1221)	ug/kg	<29.5			<29.5	<29.5					20	
PCB-1232 (Aroclor 1232)	ug/kg	<29.5			<29.5	<29.5					20	
PCB-1242 (Aroclor 1242)	ug/kg	<29.5			<29.5	<29.5					20	
PCB-1248 (Aroclor 1248)	ug/kg	<29.5			<29.5	<29.5					20	
PCB-1254 (Aroclor 1254)	ug/kg	<29.5			<29.5	<29.5					20	
PCB-1260 (Aroclor 1260)	ug/kg	<29.5	589	589	473	479	80	81	40-130	1	20	
Decachlorobiphenyl (S)	%						81	81	48-130			
Tetrachloro-m-xylene (S)	%						82	84	63-130			

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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

QC Batch: 244864
QC Batch Method: WI MOD DRO
Analysis Method: WI MOD DRO
Analysis Description: WIDRO GCS
Associated Lab Samples: 40143613005

METHOD BLANK: 1449511 Matrix: Solid
Associated Lab Samples: 40143613005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<0.80	2.0	12/27/16 15:12	

LABORATORY CONTROL SAMPLE & LCSD: 1449512 1449513

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	40	36.5	35.3	91	88	70-120	3	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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

QC Batch: 244512
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40143613005

SAMPLE DUPLICATE: 1447854

Parameter	Units	40143616001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.8	9.8	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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

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.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
W	Non-detect results are reported on a wet weight basis.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60517316-1 MONONA RIVERFRONT R
Pace Project No.: 40143613

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40143613005	**WCS-1**	EPA 3541	244529	EPA 8082	244532
40143613005	**WCS-1**	WI MOD DRO	244864	WI MOD DRO	244929
40143613005	**WCS-1**	TPH GRO/PVOC WI ext.	244578	WI MOD GRO	244626
40143613005	**WCS-1**	EPA 3050	244501	EPA 6010	244587
40143613005	**WCS-1**	EPA 7471	244544	EPA 7471	244628
40143613005	**WCS-1**	EPA 5035/5030B	244536	EPA 8260	244540
40143613001	**TW-1**	EPA 8260	244559		
40143613002	**TW-2**	EPA 8260	244559		
40143613003	**TW-3**	EPA 8260	244559		
40143613004	**TW-4**	EPA 8260	244559		
40143613006	**TRIP BLANK**	EPA 8260	244559		
40143613005	**WCS-1**	ASTM D2974-87	244512		

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

Pace Analytical®
www.pacelabs.com

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:	AECOM
Branch/Location:	1555 N RiverCenter Dr
Project Contact:	Lanette Altenbach
Phone:	414 944 6186
Project Number:	60517316 - 1
Project Name:	Monona Riverfront Redev
Project State:	WI
Sampled By (Print):	R. Cmaz
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	40143013
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	Lanette.Altenbach@aecom.com
Invoice To Company:	AECOM
Invoice To Address:	1555 N RiverCenter Dr Milw. WI 53212
Invoice To Phone:	414 944 6186

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	Analyses Requested: FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	VOCs (8260B)	GRO	DRO	PCBs	RCRA Metals	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	B*H		F	A	A	A			
001	TW-1	12/12/16	3:05p	GW			X						3-40mlB	
002	TW-2		4:49p				X							
003	TW-3		5:44p				X							
004	TW-4		7:15p				X							
005	WCS-1	12/13/16	5:09p	S			X	X	X	X	X	2-4ozCgA	2-40mlF 1-4ozAgA 2-40mlB	
006	Trip Blank (1)													

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:
	12/15/16 10:30 am.	Face Courier	12/15/16 10:30 am
Relinquished By:	Date/Time:	Received By:	Date/Time:
		Mary Fannin	12/15/16 13:45
Relinquished By: Mary Fannin	Date/Time: 12/15/16 1330	Received By:	Date/Time:
Relinquished By: CS Logistic	Date/Time: 12-16-16 1050	Received By: Melissa Vimmerstedt	Date/Time: 12-16-16 1050
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40143013

Receipt Temp = R01 °C

Sample Receipt pH OK / Adjusted

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

C019a(27Jun2006)

(1) Added to COC by lab 12-16-16 MV

Version 5.0 06/14/06

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: AECOM

Project # **WO# : 40143613**

40143613

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

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: /Corr: R01 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 12-16-16
Initials: MV

		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: 12-16-16 MV	☑Yes ☑No ☐N/A	9. 4oz AG labeled on lid as for DRO, and has 25-30g. 2-4oz AG CA that are have weighted are filled to zero headspace MV 12-16-16 12-16-16 MV
-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,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, WIDRO, 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. Added to COC by lab 12-16-16 MV 12-16-16 MV
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:

Project Manager Review: Date: 12/16/16

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

January 17, 2017

Lanette Altenbach
AECOM, Inc.- Milwaukee
1555 N River Center Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Dear Lanette Altenbach:
Enclosed are the analytical results for sample(s) received by the laboratory on January 11, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40144330001	**MW-4**	Water	01/09/17 10:25	01/11/17 09:30
40144330002	**PZ-4**	Water	01/09/17 11:05	01/11/17 09:30
40144330003	**MW-5**	Water	01/09/17 12:25	01/11/17 09:30
40144330004	**PZ-5**	Water	01/09/17 13:00	01/11/17 09:30
40144330005	**MW-2**	Water	01/09/17 14:45	01/11/17 09:30
40144330006	**MW-1**	Water	01/09/17 16:05	01/11/17 09:30
40144330007	**MW-3**	Water	01/09/17 17:05	01/11/17 09:30
40144330008	**MW-3 DUP**	Water	01/09/17 17:05	01/11/17 09:30
40144330009	**SITE COMP 1**	Water	01/09/17 17:05	01/11/17 09:30
40144330010	**TRIP BLANK**	Water	01/09/17 00:00	01/11/17 09:30

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

SAMPLE ANALYTE COUNT

Project: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40144330001	**MW-4**	EPA 8260	HNW	64	PASI-G
40144330002	**PZ-4**	EPA 8260	HNW	64	PASI-G
40144330003	**MW-5**	EPA 8260	HNW	64	PASI-G
40144330004	**PZ-5**	EPA 8260	HNW	64	PASI-G
40144330005	**MW-2**	EPA 8260	HNW	64	PASI-G
40144330006	**MW-1**	EPA 8260	HNW	64	PASI-G
40144330007	**MW-3**	EPA 8260	HNW	64	PASI-G
40144330008	**MW-3 DUP**	EPA 8260	HNW	64	PASI-G
40144330009	**SITE COMP 1**	EPA 8260	HNW	64	PASI-G
40144330010	**TRIP BLANK**	EPA 8260	HNW	64	PASI-G

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

ANALYTICAL RESULTS

Project: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: MW-4 **Lab ID: 40144330001** Collected: 01/09/17 10:25 Received: 01/11/17 09:30 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		01/12/17 11:03	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 11:03	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/12/17 11:03	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/12/17 11:03	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 11:03	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:03	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/12/17 11:03	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/12/17 11:03	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/12/17 11:03	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/12/17 11:03	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:03	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/12/17 11:03	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/12/17 11:03	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/12/17 11:03	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/12/17 11:03	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/12/17 11:03	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 11:03	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 11:03	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/12/17 11:03	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/12/17 11:03	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/12/17 11:03	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 11:03	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 11:03	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/12/17 11:03	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/12/17 11:03	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/12/17 11:03	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/12/17 11:03	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:03	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: MW-4 **Lab ID: 40144330001** Collected: 01/09/17 10:25 Received: 01/11/17 09:30 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		01/12/17 11:03	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 11:03	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 11:03	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/12/17 11:03	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/12/17 11:03	79-01-6	
Trichlorofluoromethane	**1.7**	ug/L	1.0	0.18	1		01/12/17 11:03	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:03	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/12/17 11:03	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		01/12/17 11:03	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		01/12/17 11:03	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		01/12/17 11:03	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: PZ-4 **Lab ID: 40144330002** Collected: 01/09/17 11:05 Received: 01/11/17 09:30 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		01/12/17 11:25	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 11:25	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/12/17 11:25	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/12/17 11:25	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 11:25	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:25	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/12/17 11:25	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/12/17 11:25	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/12/17 11:25	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/12/17 11:25	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:25	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/12/17 11:25	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/12/17 11:25	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/12/17 11:25	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/12/17 11:25	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/12/17 11:25	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 11:25	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 11:25	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/12/17 11:25	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/12/17 11:25	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/12/17 11:25	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 11:25	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 11:25	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/12/17 11:25	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/12/17 11:25	75-09-2	
Methyl-tert-butyl ether	**1.8**	ug/L	1.0	0.17	1		01/12/17 11:25	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/12/17 11:25	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:25	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: PZ-4 **Lab ID: 40144330002** Collected: 01/09/17 11:05 Received: 01/11/17 09:30 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		01/12/17 11:25	79-34-5	
Tetrachloroethene	**10.1**	ug/L	1.0	0.50	1		01/12/17 11:25	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 11:25	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 11:25	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/12/17 11:25	79-00-5	
Trichloroethene	**0.59J**	ug/L	1.0	0.33	1		01/12/17 11:25	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:25	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:25	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/12/17 11:25	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		01/12/17 11:25	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		01/12/17 11:25	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		01/12/17 11:25	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: MW-5 **Lab ID: 40144330003** Collected: 01/09/17 12:25 Received: 01/11/17 09:30 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		01/12/17 11:47	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 11:47	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/12/17 11:47	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/12/17 11:47	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 11:47	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:47	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/12/17 11:47	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/12/17 11:47	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/12/17 11:47	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/12/17 11:47	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:47	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/12/17 11:47	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/12/17 11:47	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/12/17 11:47	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/12/17 11:47	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/12/17 11:47	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 11:47	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 11:47	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/12/17 11:47	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/12/17 11:47	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/12/17 11:47	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 11:47	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 11:47	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/12/17 11:47	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/12/17 11:47	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/12/17 11:47	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/12/17 11:47	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:47	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: MW-5 **Lab ID: 40144330003** Collected: 01/09/17 12:25 Received: 01/11/17 09:30 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		01/12/17 11:47	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 11:47	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 11:47	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/12/17 11:47	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/12/17 11:47	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:47	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/12/17 11:47	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/12/17 11:47	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 11:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		01/12/17 11:47	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		1		01/12/17 11:47	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		01/12/17 11:47	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: PZ-5 **Lab ID: 40144330004** Collected: 01/09/17 13:00 Received: 01/11/17 09:30 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		01/12/17 12:09	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 12:09	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/12/17 12:09	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/12/17 12:09	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 12:09	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:09	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/12/17 12:09	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/12/17 12:09	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/12/17 12:09	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/12/17 12:09	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:09	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/12/17 12:09	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/12/17 12:09	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/12/17 12:09	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/12/17 12:09	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/12/17 12:09	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 12:09	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 12:09	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/12/17 12:09	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/12/17 12:09	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/12/17 12:09	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 12:09	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 12:09	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/12/17 12:09	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/12/17 12:09	75-09-2	
Methyl-tert-butyl ether	**0.23J**	ug/L	1.0	0.17	1		01/12/17 12:09	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/12/17 12:09	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:09	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: PZ-5 **Lab ID: 40144330004** Collected: 01/09/17 13:00 Received: 01/11/17 09:30 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		01/12/17 12:09	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 12:09	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 12:09	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/12/17 12:09	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/12/17 12:09	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:09	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:09	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/12/17 12:09	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		01/12/17 12:09	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		01/12/17 12:09	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		01/12/17 12:09	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: MW-2 **Lab ID: 40144330005** Collected: 01/09/17 14:45 Received: 01/11/17 09:30 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		01/12/17 12:31	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 12:31	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/12/17 12:31	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/12/17 12:31	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 12:31	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:31	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/12/17 12:31	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/12/17 12:31	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/12/17 12:31	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/12/17 12:31	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:31	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/12/17 12:31	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/12/17 12:31	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/12/17 12:31	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/12/17 12:31	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/12/17 12:31	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 12:31	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 12:31	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/12/17 12:31	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/12/17 12:31	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/12/17 12:31	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 12:31	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 12:31	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/12/17 12:31	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/12/17 12:31	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/12/17 12:31	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/12/17 12:31	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:31	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: MW-2 **Lab ID: 40144330005** Collected: 01/09/17 14:45 Received: 01/11/17 09:30 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		01/12/17 12:31	79-34-5	
Tetrachloroethene	**1.0**	ug/L	1.0	0.50	1		01/12/17 12:31	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 12:31	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 12:31	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/12/17 12:31	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/12/17 12:31	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:31	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:31	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/12/17 12:31	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/12/17 12:31	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		01/12/17 12:31	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		01/12/17 12:31	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: MW-1 **Lab ID: 40144330006** Collected: 01/09/17 16:05 Received: 01/11/17 09:30 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		01/12/17 12:53	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 12:53	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/12/17 12:53	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/12/17 12:53	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 12:53	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:53	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/12/17 12:53	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/12/17 12:53	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/12/17 12:53	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/12/17 12:53	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:53	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/12/17 12:53	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	106-46-7	
Dichlorodifluoromethane	**0.36J**	ug/L	1.0	0.22	1		01/12/17 12:53	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/12/17 12:53	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/12/17 12:53	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/12/17 12:53	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 12:53	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 12:53	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/12/17 12:53	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/12/17 12:53	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/12/17 12:53	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 12:53	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 12:53	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/12/17 12:53	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/12/17 12:53	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/12/17 12:53	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/12/17 12:53	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:53	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: MW-1 **Lab ID: 40144330006** Collected: 01/09/17 16:05 Received: 01/11/17 09:30 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		01/12/17 12:53	79-34-5	
Tetrachloroethene	**0.99J**	ug/L	1.0	0.50	1		01/12/17 12:53	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 12:53	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 12:53	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/12/17 12:53	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/12/17 12:53	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:53	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/12/17 12:53	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/12/17 12:53	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 12:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		01/12/17 12:53	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		01/12/17 12:53	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		01/12/17 12:53	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: MW-3 **Lab ID: 40144330007** Collected: 01/09/17 17:05 Received: 01/11/17 09:30 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		01/12/17 13:15	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 13:15	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/12/17 13:15	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/12/17 13:15	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 13:15	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/12/17 13:15	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/12/17 13:15	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/12/17 13:15	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/12/17 13:15	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/12/17 13:15	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/12/17 13:15	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/12/17 13:15	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/12/17 13:15	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/12/17 13:15	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/12/17 13:15	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/12/17 13:15	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 13:15	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 13:15	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/12/17 13:15	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/12/17 13:15	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/12/17 13:15	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 13:15	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 13:15	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/12/17 13:15	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/12/17 13:15	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/12/17 13:15	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/12/17 13:15	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 13:15	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: MW-3 **Lab ID: 40144330007** Collected: 01/09/17 17:05 Received: 01/11/17 09:30 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		01/12/17 13:15	79-34-5	
Tetrachloroethene	**93.5**	ug/L	1.0	0.50	1		01/12/17 13:15	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 13:15	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 13:15	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/12/17 13:15	79-00-5	
Trichloroethene	**0.95J**	ug/L	1.0	0.33	1		01/12/17 13:15	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 13:15	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/12/17 13:15	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/12/17 13:15	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		01/12/17 13:15	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		01/12/17 13:15	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		01/12/17 13:15	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: MW-3 DUP **Lab ID: 40144330008** Collected: 01/09/17 17:05 Received: 01/11/17 09:30 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		01/12/17 13:37	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 13:37	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/12/17 13:37	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/12/17 13:37	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 13:37	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/12/17 13:37	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/12/17 13:37	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/12/17 13:37	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/12/17 13:37	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/12/17 13:37	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/12/17 13:37	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/12/17 13:37	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/12/17 13:37	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/12/17 13:37	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/12/17 13:37	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/12/17 13:37	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 13:37	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 13:37	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/12/17 13:37	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/12/17 13:37	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/12/17 13:37	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 13:37	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 13:37	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/12/17 13:37	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/12/17 13:37	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/12/17 13:37	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/12/17 13:37	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 13:37	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: MW-3 DUP **Lab ID: 40144330008** Collected: 01/09/17 17:05 Received: 01/11/17 09:30 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		01/12/17 13:37	79-34-5	
Tetrachloroethene	**91.5**	ug/L	1.0	0.50	1		01/12/17 13:37	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 13:37	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 13:37	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/12/17 13:37	79-00-5	
Trichloroethene	**0.74J**	ug/L	1.0	0.33	1		01/12/17 13:37	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 13:37	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/12/17 13:37	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/12/17 13:37	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 13:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		01/12/17 13:37	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		1		01/12/17 13:37	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		01/12/17 13:37	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: SITE COMP 1 **Lab ID: 40144330009** Collected: 01/09/17 17:05 Received: 01/11/17 09:30 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		01/16/17 11:36	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/16/17 11:36	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/16/17 11:36	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/16/17 11:36	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/16/17 11:36	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/16/17 11:36	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/16/17 11:36	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/16/17 11:36	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/16/17 11:36	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/16/17 11:36	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/16/17 11:36	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/16/17 11:36	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/16/17 11:36	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/16/17 11:36	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/16/17 11:36	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/16/17 11:36	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/16/17 11:36	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/16/17 11:36	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/16/17 11:36	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/16/17 11:36	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/16/17 11:36	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/16/17 11:36	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/16/17 11:36	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/16/17 11:36	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/16/17 11:36	75-09-2	
Methyl-tert-butyl ether	**0.36J**	ug/L	1.0	0.17	1		01/16/17 11:36	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/16/17 11:36	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/16/17 11:36	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: SITE COMP 1 **Lab ID: 40144330009** Collected: 01/09/17 17:05 Received: 01/11/17 09:30 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		01/16/17 11:36	79-34-5	
Tetrachloroethene	**5.2**	ug/L	1.0	0.50	1		01/16/17 11:36	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/16/17 11:36	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/16/17 11:36	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	71-55-6	L3
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/16/17 11:36	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/16/17 11:36	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/16/17 11:36	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/16/17 11:36	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/16/17 11:36	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/16/17 11:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/16/17 11:36	460-00-4	pH
Dibromofluoromethane (S)	96	%	70-130		1		01/16/17 11:36	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		01/16/17 11:36	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: TRIP BLANK **Lab ID: 40144330010** Collected: 01/09/17 00:00 Received: 01/11/17 09:30 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		01/12/17 14:22	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 14:22	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/12/17 14:22	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/12/17 14:22	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 14:22	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/12/17 14:22	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/12/17 14:22	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/12/17 14:22	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/12/17 14:22	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/12/17 14:22	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/12/17 14:22	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/12/17 14:22	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/12/17 14:22	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/12/17 14:22	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/12/17 14:22	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/12/17 14:22	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 14:22	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/12/17 14:22	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/12/17 14:22	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/12/17 14:22	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/12/17 14:22	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/12/17 14:22	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 14:22	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/12/17 14:22	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/12/17 14:22	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/12/17 14:22	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/12/17 14:22	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 14:22	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Sample: TRIP BLANK **Lab ID: 40144330010** Collected: 01/09/17 00:00 Received: 01/11/17 09:30 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		01/12/17 14:22	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/12/17 14:22	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/12/17 14:22	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/12/17 14:22	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/12/17 14:22	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/12/17 14:22	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/12/17 14:22	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/12/17 14:22	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/12/17 14:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		01/12/17 14:22	460-00-4	
Dibromofluoromethane (S)	91	%	70-130		1		01/12/17 14:22	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		01/12/17 14:22	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

QC Batch: 246167 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40144330001, 40144330002, 40144330003, 40144330004, 40144330005, 40144330006, 40144330007, 40144330008, 40144330010

METHOD BLANK: 1455770 Matrix: Water
Associated Lab Samples: 40144330001, 40144330002, 40144330003, 40144330004, 40144330005, 40144330006, 40144330007, 40144330008, 40144330010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	01/12/17 08:49	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	01/12/17 08:49	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	01/12/17 08:49	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	01/12/17 08:49	
1,1-Dichloroethane	ug/L	<0.24	1.0	01/12/17 08:49	
1,1-Dichloroethene	ug/L	<0.41	1.0	01/12/17 08:49	
1,1-Dichloropropene	ug/L	<0.44	1.0	01/12/17 08:49	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	01/12/17 08:49	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	01/12/17 08:49	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	01/12/17 08:49	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	01/12/17 08:49	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	01/12/17 08:49	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	01/12/17 08:49	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	01/12/17 08:49	
1,2-Dichloroethane	ug/L	<0.17	1.0	01/12/17 08:49	
1,2-Dichloropropane	ug/L	<0.23	1.0	01/12/17 08:49	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	01/12/17 08:49	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	01/12/17 08:49	
1,3-Dichloropropane	ug/L	<0.50	1.0	01/12/17 08:49	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	01/12/17 08:49	
2,2-Dichloropropane	ug/L	<0.48	1.0	01/12/17 08:49	
2-Chlorotoluene	ug/L	<0.50	1.0	01/12/17 08:49	
4-Chlorotoluene	ug/L	<0.21	1.0	01/12/17 08:49	
Benzene	ug/L	<0.50	1.0	01/12/17 08:49	
Bromobenzene	ug/L	<0.23	1.0	01/12/17 08:49	
Bromochloromethane	ug/L	<0.34	1.0	01/12/17 08:49	
Bromodichloromethane	ug/L	<0.50	1.0	01/12/17 08:49	
Bromoform	ug/L	<0.50	1.0	01/12/17 08:49	
Bromomethane	ug/L	<2.4	5.0	01/12/17 08:49	
Carbon tetrachloride	ug/L	<0.50	1.0	01/12/17 08:49	
Chlorobenzene	ug/L	<0.50	1.0	01/12/17 08:49	
Chloroethane	ug/L	<0.37	1.0	01/12/17 08:49	
Chloroform	ug/L	<2.5	5.0	01/12/17 08:49	
Chloromethane	ug/L	<0.50	1.0	01/12/17 08:49	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	01/12/17 08:49	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	01/12/17 08:49	
Dibromochloromethane	ug/L	<0.50	1.0	01/12/17 08:49	
Dibromomethane	ug/L	<0.43	1.0	01/12/17 08:49	
Dichlorodifluoromethane	ug/L	<0.22	1.0	01/12/17 08:49	
Diisopropyl ether	ug/L	<0.50	1.0	01/12/17 08:49	

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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

METHOD BLANK: 1455770 Matrix: Water
Associated Lab Samples: 40144330001, 40144330002, 40144330003, 40144330004, 40144330005, 40144330006, 40144330007, 40144330008, 40144330010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.50	1.0	01/12/17 08:49	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	01/12/17 08:49	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	01/12/17 08:49	
m&p-Xylene	ug/L	<1.0	2.0	01/12/17 08:49	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	01/12/17 08:49	
Methylene Chloride	ug/L	<0.23	1.0	01/12/17 08:49	
n-Butylbenzene	ug/L	<0.50	1.0	01/12/17 08:49	
n-Propylbenzene	ug/L	<0.50	1.0	01/12/17 08:49	
Naphthalene	ug/L	<2.5	5.0	01/12/17 08:49	
o-Xylene	ug/L	<0.50	1.0	01/12/17 08:49	
p-Isopropyltoluene	ug/L	<0.50	1.0	01/12/17 08:49	
sec-Butylbenzene	ug/L	<2.2	5.0	01/12/17 08:49	
Styrene	ug/L	<0.50	1.0	01/12/17 08:49	
tert-Butylbenzene	ug/L	<0.18	1.0	01/12/17 08:49	
Tetrachloroethene	ug/L	<0.50	1.0	01/12/17 08:49	
Toluene	ug/L	<0.50	1.0	01/12/17 08:49	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	01/12/17 08:49	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	01/12/17 08:49	
Trichloroethene	ug/L	<0.33	1.0	01/12/17 08:49	
Trichlorofluoromethane	ug/L	<0.18	1.0	01/12/17 08:49	
Vinyl chloride	ug/L	<0.18	1.0	01/12/17 08:49	
4-Bromofluorobenzene (S)	%	98	70-130	01/12/17 08:49	
Dibromofluoromethane (S)	%	91	70-130	01/12/17 08:49	
Toluene-d8 (S)	%	105	70-130	01/12/17 08:49	

LABORATORY CONTROL SAMPLE: 1455771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.4	93	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	45.1	90	67-130	
1,1,2-Trichloroethane	ug/L	50	44.2	88	70-130	
1,1-Dichloroethane	ug/L	50	44.6	89	70-133	
1,1-Dichloroethene	ug/L	50	45.6	91	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.6	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.3	91	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	44.9	90	70-130	
1,2-Dichlorobenzene	ug/L	50	47.4	95	70-130	
1,2-Dichloroethane	ug/L	50	44.6	89	70-130	
1,2-Dichloropropane	ug/L	50	47.9	96	70-130	
1,3-Dichlorobenzene	ug/L	50	48.4	97	70-130	
1,4-Dichlorobenzene	ug/L	50	48.1	96	70-130	
Benzene	ug/L	50	47.8	96	60-135	
Bromodichloromethane	ug/L	50	50.4	101	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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

LABORATORY CONTROL SAMPLE: 1455771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	43.8	88	70-130	
Bromomethane	ug/L	50	26.9	54	33-130	
Carbon tetrachloride	ug/L	50	45.9	92	70-138	
Chlorobenzene	ug/L	50	49.0	98	70-130	
Chloroethane	ug/L	50	52.9	106	51-130	
Chloroform	ug/L	50	44.0	88	70-130	
Chloromethane	ug/L	50	44.3	89	25-132	
cis-1,2-Dichloroethene	ug/L	50	43.2	86	69-130	
cis-1,3-Dichloropropene	ug/L	50	45.3	91	70-130	
Dibromochloromethane	ug/L	50	45.3	91	70-130	
Dichlorodifluoromethane	ug/L	50	37.0	74	23-130	
Ethylbenzene	ug/L	50	53.0	106	70-136	
Isopropylbenzene (Cumene)	ug/L	50	52.6	105	70-140	
m&p-Xylene	ug/L	100	105	105	70-138	
Methyl-tert-butyl ether	ug/L	50	40.3	81	66-138	
Methylene Chloride	ug/L	50	41.5	83	70-130	
o-Xylene	ug/L	50	51.3	103	70-134	
Styrene	ug/L	50	52.1	104	70-133	
Tetrachloroethene	ug/L	50	48.1	96	70-138	
Toluene	ug/L	50	50.1	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	42.9	86	70-131	
trans-1,3-Dichloropropene	ug/L	50	42.6	85	69-130	
Trichloroethene	ug/L	50	49.4	99	70-130	
Trichlorofluoromethane	ug/L	50	50.9	102	50-150	
Vinyl chloride	ug/L	50	54.5	109	49-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Dibromofluoromethane (S)	%			94	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1455820 1455821

Parameter	Units	40144330001 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	<0.50	50	50	47.2	48.3	94	97	70-134	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	45.8	46.3	92	93	67-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	47.2	48.1	94	96	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	45.1	46.8	90	94	70-134	4	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	46.4	48.2	93	96	68-136	4	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	51.2	52.9	102	106	62-139	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	40.7	43.5	81	87	50-150	7	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	47.1	47.5	94	95	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	49.7	49.9	99	100	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	45.6	46.8	91	94	70-130	3	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	49.1	50.6	98	101	70-130	3	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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1455820 1455821

Parameter	Units	40144330001 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/L	<0.50	50	50	50.6	51.3	101	103	70-131	1	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.1	50.6	99	100	70-130	1	20	
Benzene	ug/L	<0.50	50	50	48.6	50.3	97	101	57-138	3	20	
Bromodichloromethane	ug/L	<0.50	50	50	51.5	52.4	103	105	70-130	2	20	
Bromoform	ug/L	<0.50	50	50	45.8	46.8	92	94	70-130	2	20	
Bromomethane	ug/L	<2.4	50	50	30.1	32.5	60	65	33-130	7	27	
Carbon tetrachloride	ug/L	<0.50	50	50	47.2	48.4	94	97	70-138	3	20	
Chlorobenzene	ug/L	<0.50	50	50	51.0	53.1	102	106	70-130	4	20	
Chloroethane	ug/L	<0.37	50	50	57.1	56.4	114	113	51-130	1	20	
Chloroform	ug/L	<2.5	50	50	44.7	46.1	89	92	70-130	3	20	
Chloromethane	ug/L	<0.50	50	50	41.9	43.5	84	87	25-132	4	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	44.6	46.3	89	93	61-140	4	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	52.2	52.8	104	106	70-130	1	20	
Dibromochloromethane	ug/L	<0.50	50	50	47.5	47.5	95	95	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	35.0	36.3	70	73	23-130	4	20	
Ethylbenzene	ug/L	<0.50	50	50	55.2	56.2	110	112	70-138	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	54.8	56.1	110	112	70-152	2	20	
m&p-Xylene	ug/L	<1.0	100	100	110	110	110	110	70-140	0	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	40.1	42.1	80	84	66-139	5	20	
Methylene Chloride	ug/L	<0.23	50	50	42.6	43.9	85	88	70-130	3	20	
o-Xylene	ug/L	<0.50	50	50	54.1	54.7	108	109	70-134	1	20	
Styrene	ug/L	<0.50	50	50	54.0	55.3	108	111	70-138	2	20	
Tetrachloroethene	ug/L	<0.50	50	50	51.5	52.6	102	104	70-148	2	20	
Toluene	ug/L	<0.50	50	50	53.1	54.0	106	108	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	44.3	45.1	89	90	70-133	2	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	48.7	48.4	97	97	69-130	1	20	
Trichloroethene	ug/L	<0.33	50	50	50.4	51.5	101	103	70-131	2	20	
Trichlorofluoromethane	ug/L	1.7	50	50	55.0	56.5	107	110	50-150	3	20	
Vinyl chloride	ug/L	<0.18	50	50	54.4	55.5	109	111	49-133	2	20	
4-Bromofluorobenzene (S)	%						104	104	70-130			
Dibromofluoromethane (S)	%						92	94	70-130			
Toluene-d8 (S)	%						106	105	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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

QC Batch: 246320 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40144330009

METHOD BLANK: 1457022 Matrix: Water
Associated Lab Samples: 40144330009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	01/16/17 08:39	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	01/16/17 08:39	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	01/16/17 08:39	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	01/16/17 08:39	
1,1-Dichloroethane	ug/L	<0.24	1.0	01/16/17 08:39	
1,1-Dichloroethene	ug/L	<0.41	1.0	01/16/17 08:39	
1,1-Dichloropropene	ug/L	<0.44	1.0	01/16/17 08:39	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	01/16/17 08:39	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	01/16/17 08:39	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	01/16/17 08:39	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	01/16/17 08:39	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	01/16/17 08:39	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	01/16/17 08:39	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	01/16/17 08:39	
1,2-Dichloroethane	ug/L	<0.17	1.0	01/16/17 08:39	
1,2-Dichloropropane	ug/L	<0.23	1.0	01/16/17 08:39	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	01/16/17 08:39	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	01/16/17 08:39	
1,3-Dichloropropane	ug/L	<0.50	1.0	01/16/17 08:39	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	01/16/17 08:39	
2,2-Dichloropropane	ug/L	<0.48	1.0	01/16/17 08:39	
2-Chlorotoluene	ug/L	<0.50	1.0	01/16/17 08:39	
4-Chlorotoluene	ug/L	<0.21	1.0	01/16/17 08:39	
Benzene	ug/L	<0.50	1.0	01/16/17 08:39	
Bromobenzene	ug/L	<0.23	1.0	01/16/17 08:39	
Bromochloromethane	ug/L	<0.34	1.0	01/16/17 08:39	
Bromodichloromethane	ug/L	<0.50	1.0	01/16/17 08:39	
Bromoform	ug/L	<0.50	1.0	01/16/17 08:39	
Bromomethane	ug/L	<2.4	5.0	01/16/17 08:39	
Carbon tetrachloride	ug/L	<0.50	1.0	01/16/17 08:39	
Chlorobenzene	ug/L	<0.50	1.0	01/16/17 08:39	
Chloroethane	ug/L	<0.37	1.0	01/16/17 08:39	
Chloroform	ug/L	<2.5	5.0	01/16/17 08:39	
Chloromethane	ug/L	<0.50	1.0	01/16/17 08:39	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	01/16/17 08:39	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	01/16/17 08:39	
Dibromochloromethane	ug/L	<0.50	1.0	01/16/17 08:39	
Dibromomethane	ug/L	<0.43	1.0	01/16/17 08:39	
Dichlorodifluoromethane	ug/L	<0.22	1.0	01/16/17 08:39	
Diisopropyl ether	ug/L	<0.50	1.0	01/16/17 08:39	
Ethylbenzene	ug/L	<0.50	1.0	01/16/17 08:39	

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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

METHOD BLANK: 1457022 Matrix: Water
Associated Lab Samples: 40144330009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	01/16/17 08:39	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	01/16/17 08:39	
m&p-Xylene	ug/L	<1.0	2.0	01/16/17 08:39	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	01/16/17 08:39	
Methylene Chloride	ug/L	<0.23	1.0	01/16/17 08:39	
n-Butylbenzene	ug/L	<0.50	1.0	01/16/17 08:39	
n-Propylbenzene	ug/L	<0.50	1.0	01/16/17 08:39	
Naphthalene	ug/L	<2.5	5.0	01/16/17 08:39	
o-Xylene	ug/L	<0.50	1.0	01/16/17 08:39	
p-Isopropyltoluene	ug/L	<0.50	1.0	01/16/17 08:39	
sec-Butylbenzene	ug/L	<2.2	5.0	01/16/17 08:39	
Styrene	ug/L	<0.50	1.0	01/16/17 08:39	
tert-Butylbenzene	ug/L	<0.18	1.0	01/16/17 08:39	
Tetrachloroethene	ug/L	<0.50	1.0	01/16/17 08:39	
Toluene	ug/L	<0.50	1.0	01/16/17 08:39	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	01/16/17 08:39	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	01/16/17 08:39	
Trichloroethene	ug/L	<0.33	1.0	01/16/17 08:39	
Trichlorofluoromethane	ug/L	<0.18	1.0	01/16/17 08:39	
Vinyl chloride	ug/L	<0.18	1.0	01/16/17 08:39	
4-Bromofluorobenzene (S)	%	102	70-130	01/16/17 08:39	
Dibromofluoromethane (S)	%	94	70-130	01/16/17 08:39	
Toluene-d8 (S)	%	104	70-130	01/16/17 08:39	

LABORATORY CONTROL SAMPLE: 1457023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	28.7	143	70-131	L0
1,1,2,2-Tetrachloroethane	ug/L	20	16.0	80	67-130	
1,1,2-Trichloroethane	ug/L	20	17.0	85	70-130	
1,1-Dichloroethane	ug/L	20	18.1	91	70-133	
1,1-Dichloroethene	ug/L	20	17.2	86	70-130	
1,2,4-Trichlorobenzene	ug/L	20	18.1	91	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	16.2	81	50-150	
1,2-Dibromoethane (EDB)	ug/L	20	16.0	80	70-130	
1,2-Dichlorobenzene	ug/L	20	17.4	87	70-130	
1,2-Dichloroethane	ug/L	20	16.4	82	70-130	
1,2-Dichloropropane	ug/L	20	18.0	90	70-130	
1,3-Dichlorobenzene	ug/L	20	17.7	89	70-130	
1,4-Dichlorobenzene	ug/L	20	18.5	92	70-130	
Benzene	ug/L	20	18.7	93	60-135	
Bromodichloromethane	ug/L	20	17.9	90	70-130	
Bromoform	ug/L	20	18.7	94	70-130	
Bromomethane	ug/L	20	10.7	54	33-130	

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

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

LABORATORY CONTROL SAMPLE: 1457023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	20	17.4	87	70-138	
Chlorobenzene	ug/L	20	19.1	95	70-130	
Chloroethane	ug/L	20	19.0	95	51-130	
Chloroform	ug/L	20	17.2	86	70-130	
Chloromethane	ug/L	20	15.3	77	25-132	
cis-1,2-Dichloroethene	ug/L	20	17.1	85	69-130	
cis-1,3-Dichloropropene	ug/L	20	18.5	93	70-130	
Dibromochloromethane	ug/L	20	16.6	83	70-130	
Dichlorodifluoromethane	ug/L	20	12.4	62	23-130	
Ethylbenzene	ug/L	20	19.6	98	70-136	
Isopropylbenzene (Cumene)	ug/L	20	19.5	97	70-140	
m&p-Xylene	ug/L	40	38.9	97	70-138	
Methyl-tert-butyl ether	ug/L	20	15.1	75	66-138	
Methylene Chloride	ug/L	20	15.8	79	70-130	
o-Xylene	ug/L	20	18.9	95	70-134	
Styrene	ug/L	20	18.9	95	70-133	
Tetrachloroethene	ug/L	20	18.5	93	70-138	
Toluene	ug/L	20	19.4	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.8	84	70-131	
trans-1,3-Dichloropropene	ug/L	20	18.9	95	69-130	
Trichloroethene	ug/L	20	18.3	92	70-130	
Trichlorofluoromethane	ug/L	20	19.6	98	50-150	
Vinyl chloride	ug/L	20	19.9	100	49-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1457075 1457076

Parameter	Units	40144422001 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	<0.50	1000	1000	985	985	99	98	70-134	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1000	1000	889	876	89	88	67-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.20	1000	1000	907	920	91	92	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.24	1000	1000	990	999	99	100	70-134	1	20	
1,1-Dichloroethene	ug/L	<0.41	1000	1000	936	953	94	95	68-136	2	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	1000	1000	1030	1050	103	105	62-139	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	1000	1000	926	860	93	86	50-150	7	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1000	1000	933	928	93	93	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.50	1000	1000	981	991	98	99	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	1000	1000	926	931	93	93	70-130	1	20	
1,2-Dichloropropane	ug/L	<0.23	1000	1000	987	996	99	100	70-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.50	1000	1000	993	1000	99	100	70-131	1	20	
1,4-Dichlorobenzene	ug/L	<0.50	1000	1000	978	973	98	97	70-130	1	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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1457075 1457076

Parameter	Units	40144422001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	1000	1000	999	1010	100	101	57-138	1	20	
Bromodichloromethane	ug/L	<0.50	1000	1000	1010	1030	101	103	70-130	2	20	
Bromoform	ug/L	<0.50	1000	1000	918	911	92	91	70-130	1	20	
Bromomethane	ug/L	<2.4	1000	1000	658	673	66	67	33-130	2	27	
Carbon tetrachloride	ug/L	<0.50	1000	1000	984	997	98	100	70-138	1	20	
Chlorobenzene	ug/L	<0.50	1000	1000	1020	1010	102	101	70-130	0	20	
Chloroethane	ug/L	<0.37	1000	1000	1060	1080	106	108	51-130	2	20	
Chloroform	ug/L	47.7	1000	1000	973	971	93	92	70-130	0	20	
Chloromethane	ug/L	<0.50	1000	1000	834	817	83	82	25-132	2	20	
cis-1,2-Dichloroethene	ug/L	<0.26	1000	1000	915	929	92	93	61-140	1	20	
cis-1,3-Dichloropropene	ug/L	<0.50	1000	1000	1020	1040	102	104	70-130	1	20	
Dibromochloromethane	ug/L	<0.50	1000	1000	946	934	95	93	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.22	1000	1000	643	668	64	67	23-130	4	20	
Ethylbenzene	ug/L	17.9	1000	1000	1110	1110	110	109	70-138	0	20	
Isopropylbenzene (Cumene)	ug/L	5.0	1000	1000	1100	1100	109	109	70-152	0	20	
m&p-Xylene	ug/L	220	2000	2000	2340	2330	106	105	70-140	0	20	
Methyl-tert-butyl ether	ug/L	<0.17	1000	1000	842	840	84	84	66-139	0	20	
Methylene Chloride	ug/L	<0.23	1000	1000	856	836	86	84	70-130	2	20	
o-Xylene	ug/L	159	1000	1000	1200	1220	105	106	70-134	1	20	
Styrene	ug/L	<0.50	1000	1000	1080	1080	108	108	70-138	0	20	
Tetrachloroethene	ug/L	<0.50	1000	1000	989	1010	99	101	70-148	2	20	
Toluene	ug/L	14.7	1000	1000	1060	1070	104	106	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	<0.26	1000	1000	888	900	89	90	70-133	1	20	
trans-1,3-Dichloropropene	ug/L	<0.23	1000	1000	974	938	97	94	69-130	4	20	
Trichloroethene	ug/L	<0.33	1000	1000	1010	1010	101	101	70-131	0	20	
Trichlorofluoromethane	ug/L	<0.18	1000	1000	1060	1070	106	107	50-150	1	20	
Vinyl chloride	ug/L	<0.18	1000	1000	1060	1080	106	108	49-133	2	20	
4-Bromofluorobenzene (S)	%						106	105	70-130			
Dibromofluoromethane (S)	%						96	96	70-130			
Toluene-d8 (S)	%						104	105	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: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

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.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60517316-1 MONONA RIVER FRONT
Pace Project No.: 40144330

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40144330001	**MW-4**	EPA 8260	246167		
40144330002	**PZ-4**	EPA 8260	246167		
40144330003	**MW-5**	EPA 8260	246167		
40144330004	**PZ-5**	EPA 8260	246167		
40144330005	**MW-2**	EPA 8260	246167		
40144330006	**MW-1**	EPA 8260	246167		
40144330007	**MW-3**	EPA 8260	246167		
40144330008	**MW-3 DUP**	EPA 8260	246167		
40144330009	**SITE COMP 1**	EPA 8260	246320		
40144330010	**TRIP BLANK**	EPA 8260	246167		

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

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

401443 30

mm.

(Please Print Clearly)	
Company Name:	AECOM
Branch/Location:	Milwaukee, WI
Project Contact:	Ric MAZ
Phone:	414-944-6174
Project Number:	
Project Name:	Monona River front
Project State:	WI
Sampled By (Print):	Eric LAUMANN
Sampled By (Sign):	
PO #:	Regulatory Program:

*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:	Ric MAZ
Mail To Company:	AECOM - Milwaukee
Mail To Address:	1555 N. RiverCenter Dr. STE 214 Milwaukee, WI 53212
Invoice To Contact:	Ric MAZ
Invoice To Company:	AECOM - Milwaukee
Invoice To Address:	1555 N. River Center Dr. STE 214 Milwaukee, WI 53212
Invoice To Phone:	414-944-6174

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's										
					N	A	VOC's										
001	MW-4	01/09/17	1025	GW			X								3-40mL VB	3-40ml B	
002	PZ-4	01/09/17	1105	GW			X								"		
003	MW-5	01/09/17	1225	GW			X								"		
004	PZ-5	01/09/17	1300	GW			X								"		
005	MW-2	01/09/17	1445	GW			X								"		
006	MW-1	01/09/17	1605	GW			X								"		
007	MW-3	01/09/17	1705	GW			X								"		
008	MW-3 DUP	01/09/17	1705	GW			X								"		
009	Site Comp. 1	01/09/17	1705	GW				X							1-1L. Amber	1-1L Ag A	
010	Trip blank	—	—	QC			X								2-40mL VB	2-40ml B	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: Standard 5 bus. Day.

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

Email #1:	Ric.MAZ@AECOM.com
Email #2:	eric.laumann@AECOM.com
Telephone:	414-944-6174
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	01/10/17 @ 0900	Pace Analytical	01/10/17 @ 0900
[S] Logistic	1-11-17 0930		1-11-17 0930

PACE Project No. 40144330

Receipt Temp = R01 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

1-11-17 MM

Sample Condition Upon Receipt

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

Pace Analytical™

Project # **WO#: 40144330**

40144330

Client Name: AECOM

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

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 N/A **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: 1-11-17
Initials: MV

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): MV 1-11-17	☑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. 009 volume received in 1LAgA,
-Pace Containers Used:	☑Yes ☐No ☐N/A	Lab will transfer volume
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	into 3-40ml B. 1-11-17MV
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. 010 1Vial 1-11-17 MV
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:

Project Manager Review: Date: 1-11-17

F-GB-C-031-Rev.03 (9April2015) SCUR Form

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

February 08, 2017

Lanette Altenbach
AECOM, Inc.- Milwaukee
1555 N River Center Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Dear Lanette Altenbach:
Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40145224001	**MW-4**	Water	02/02/17 11:20	02/03/17 09:30
40145224002	**PZ-4**	Water	02/02/17 11:40	02/03/17 09:30
40145224003	**MW-2**	Water	02/02/17 13:40	02/03/17 09:30
40145224004	**MW-1**	Water	02/02/17 14:40	02/03/17 09:30
40145224005	**MW-3**	Water	02/02/17 15:30	02/03/17 09:30
40145224006	**MW-3 DUP**	Water	02/02/17 15:30	02/03/17 09:30
40145224007	**TRIP BLANK**	Water	02/02/17 00:00	02/03/17 09:30

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

SAMPLE ANALYTE COUNT

Project: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40145224001	**MW-4**	EPA 8260	LAP	64	PASI-G
40145224002	**PZ-4**	EPA 8260	LAP	64	PASI-G
40145224003	**MW-2**	EPA 8260	LAP	64	PASI-G
40145224004	**MW-1**	EPA 8260	LAP	64	PASI-G
40145224005	**MW-3**	EPA 8260	LAP	64	PASI-G
40145224006	**MW-3 DUP**	EPA 8260	LAP	64	PASI-G
40145224007	**TRIP BLANK**	EPA 8260	LAP	64	PASI-G

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

ANALYTICAL RESULTS

Project: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: MW-4 **Lab ID: 40145224001** Collected: 02/02/17 11:20 Received: 02/03/17 09:30 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		02/07/17 18:20	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 18:20	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		02/07/17 18:20	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		02/07/17 18:20	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 18:20	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		02/07/17 18:20	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		02/07/17 18:20	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		02/07/17 18:20	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		02/07/17 18:20	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		02/07/17 18:20	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		02/07/17 18:20	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		02/07/17 18:20	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		02/07/17 18:20	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		02/07/17 18:20	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		02/07/17 18:20	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		02/07/17 18:20	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 18:20	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 18:20	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		02/07/17 18:20	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		02/07/17 18:20	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		02/07/17 18:20	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 18:20	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 18:20	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		02/07/17 18:20	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		02/07/17 18:20	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		02/07/17 18:20	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		02/07/17 18:20	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		02/07/17 18:20	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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: MW-4 **Lab ID: 40145224001** Collected: 02/02/17 11:20 Received: 02/03/17 09:30 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		02/07/17 18:20	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 18:20	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 18:20	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		02/07/17 18:20	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		02/07/17 18:20	79-01-6	
Trichlorofluoromethane	**2.0**	ug/L	1.0	0.18	1		02/07/17 18:20	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		02/07/17 18:20	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		02/07/17 18:20	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	70-130		1		02/07/17 18:20	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		02/07/17 18:20	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		02/07/17 18:20	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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: PZ-4 **Lab ID: 40145224002** Collected: 02/02/17 11:40 Received: 02/03/17 09:30 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		02/07/17 18:43	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 18:43	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		02/07/17 18:43	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		02/07/17 18:43	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 18:43	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		02/07/17 18:43	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		02/07/17 18:43	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		02/07/17 18:43	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		02/07/17 18:43	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		02/07/17 18:43	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		02/07/17 18:43	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		02/07/17 18:43	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		02/07/17 18:43	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		02/07/17 18:43	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		02/07/17 18:43	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		02/07/17 18:43	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 18:43	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 18:43	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		02/07/17 18:43	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		02/07/17 18:43	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		02/07/17 18:43	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 18:43	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 18:43	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		02/07/17 18:43	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		02/07/17 18:43	75-09-2	
Methyl-tert-butyl ether	**6.4**	ug/L	1.0	0.17	1		02/07/17 18:43	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		02/07/17 18:43	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		02/07/17 18:43	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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: PZ-4 **Lab ID: 40145224002** Collected: 02/02/17 11:40 Received: 02/03/17 09:30 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		02/07/17 18:43	79-34-5	
Tetrachloroethene	**8.9**	ug/L	1.0	0.50	1		02/07/17 18:43	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 18:43	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 18:43	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		02/07/17 18:43	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		02/07/17 18:43	79-01-6	
Trichlorofluoromethane	**0.62J**	ug/L	1.0	0.18	1		02/07/17 18:43	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		02/07/17 18:43	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		02/07/17 18:43	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 18:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		02/07/17 18:43	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		02/07/17 18:43	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		02/07/17 18:43	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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: MW-2 **Lab ID: 40145224003** Collected: 02/02/17 13:40 Received: 02/03/17 09:30 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		02/07/17 19:05	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 19:05	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		02/07/17 19:05	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		02/07/17 19:05	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 19:05	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:05	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		02/07/17 19:05	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		02/07/17 19:05	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		02/07/17 19:05	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		02/07/17 19:05	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:05	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		02/07/17 19:05	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		02/07/17 19:05	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		02/07/17 19:05	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		02/07/17 19:05	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		02/07/17 19:05	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 19:05	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 19:05	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		02/07/17 19:05	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		02/07/17 19:05	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		02/07/17 19:05	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 19:05	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 19:05	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		02/07/17 19:05	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		02/07/17 19:05	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		02/07/17 19:05	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		02/07/17 19:05	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:05	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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: MW-2 **Lab ID: 40145224003** Collected: 02/02/17 13:40 Received: 02/03/17 09:30 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		02/07/17 19:05	79-34-5	
Tetrachloroethene	**1.2**	ug/L	1.0	0.50	1		02/07/17 19:05	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 19:05	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 19:05	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		02/07/17 19:05	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		02/07/17 19:05	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:05	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:05	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		02/07/17 19:05	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		02/07/17 19:05	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		02/07/17 19:05	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		02/07/17 19:05	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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: MW-1 **Lab ID: 40145224004** Collected: 02/02/17 14:40 Received: 02/03/17 09:30 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		02/07/17 19:28	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 19:28	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		02/07/17 19:28	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		02/07/17 19:28	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 19:28	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:28	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		02/07/17 19:28	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		02/07/17 19:28	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		02/07/17 19:28	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		02/07/17 19:28	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:28	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		02/07/17 19:28	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	106-46-7	
Dichlorodifluoromethane	**0.51J**	ug/L	1.0	0.22	1		02/07/17 19:28	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		02/07/17 19:28	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		02/07/17 19:28	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		02/07/17 19:28	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 19:28	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 19:28	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		02/07/17 19:28	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		02/07/17 19:28	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		02/07/17 19:28	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 19:28	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 19:28	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		02/07/17 19:28	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		02/07/17 19:28	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		02/07/17 19:28	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		02/07/17 19:28	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:28	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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: MW-1 **Lab ID: 40145224004** Collected: 02/02/17 14:40 Received: 02/03/17 09:30 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		02/07/17 19:28	79-34-5	
Tetrachloroethene	**0.66J**	ug/L	1.0	0.50	1		02/07/17 19:28	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 19:28	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 19:28	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		02/07/17 19:28	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		02/07/17 19:28	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:28	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:28	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		02/07/17 19:28	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		02/07/17 19:28	460-00-4	
Dibromofluoromethane (S)	122	%	70-130		1		02/07/17 19:28	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		02/07/17 19:28	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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: MW-3 **Lab ID: 40145224005** Collected: 02/02/17 15:30 Received: 02/03/17 09:30 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		02/07/17 19:51	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 19:51	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		02/07/17 19:51	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		02/07/17 19:51	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 19:51	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:51	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		02/07/17 19:51	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		02/07/17 19:51	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		02/07/17 19:51	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		02/07/17 19:51	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:51	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		02/07/17 19:51	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		02/07/17 19:51	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		02/07/17 19:51	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		02/07/17 19:51	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		02/07/17 19:51	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 19:51	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 19:51	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		02/07/17 19:51	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		02/07/17 19:51	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		02/07/17 19:51	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 19:51	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 19:51	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		02/07/17 19:51	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		02/07/17 19:51	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		02/07/17 19:51	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		02/07/17 19:51	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:51	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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: MW-3 **Lab ID: 40145224005** Collected: 02/02/17 15:30 Received: 02/03/17 09:30 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		02/07/17 19:51	79-34-5	
Tetrachloroethene	**69.5**	ug/L	1.0	0.50	1		02/07/17 19:51	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 19:51	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 19:51	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		02/07/17 19:51	79-00-5	
Trichloroethene	**0.55J**	ug/L	1.0	0.33	1		02/07/17 19:51	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:51	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		02/07/17 19:51	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		02/07/17 19:51	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 19:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		02/07/17 19:51	460-00-4	
Dibromofluoromethane (S)	118	%	70-130		1		02/07/17 19:51	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		02/07/17 19:51	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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: MW-3 DUP **Lab ID: 40145224006** Collected: 02/02/17 15:30 Received: 02/03/17 09:30 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		02/07/17 20:13	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 20:13	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		02/07/17 20:13	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		02/07/17 20:13	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 20:13	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		02/07/17 20:13	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		02/07/17 20:13	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		02/07/17 20:13	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		02/07/17 20:13	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		02/07/17 20:13	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		02/07/17 20:13	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		02/07/17 20:13	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		02/07/17 20:13	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		02/07/17 20:13	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		02/07/17 20:13	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		02/07/17 20:13	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 20:13	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 20:13	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		02/07/17 20:13	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		02/07/17 20:13	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		02/07/17 20:13	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 20:13	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 20:13	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		02/07/17 20:13	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		02/07/17 20:13	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		02/07/17 20:13	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		02/07/17 20:13	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		02/07/17 20:13	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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: MW-3 DUP **Lab ID: 40145224006** Collected: 02/02/17 15:30 Received: 02/03/17 09:30 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		02/07/17 20:13	79-34-5	
Tetrachloroethene	**68.4**	ug/L	1.0	0.50	1		02/07/17 20:13	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 20:13	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 20:13	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		02/07/17 20:13	79-00-5	
Trichloroethene	**0.69J**	ug/L	1.0	0.33	1		02/07/17 20:13	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		02/07/17 20:13	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		02/07/17 20:13	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		02/07/17 20:13	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 20:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		02/07/17 20:13	460-00-4	
Dibromofluoromethane (S)	121	%	70-130		1		02/07/17 20:13	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		02/07/17 20:13	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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: TRIP BLANK **Lab ID: 40145224007** Collected: 02/02/17 00:00 Received: 02/03/17 09:30 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		02/07/17 15:20	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 15:20	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		02/07/17 15:20	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		02/07/17 15:20	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 15:20	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		02/07/17 15:20	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		02/07/17 15:20	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		02/07/17 15:20	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		02/07/17 15:20	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		02/07/17 15:20	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		02/07/17 15:20	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		02/07/17 15:20	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		02/07/17 15:20	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		02/07/17 15:20	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		02/07/17 15:20	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		02/07/17 15:20	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 15:20	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/07/17 15:20	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		02/07/17 15:20	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		02/07/17 15:20	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		02/07/17 15:20	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		02/07/17 15:20	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 15:20	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		02/07/17 15:20	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		02/07/17 15:20	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		02/07/17 15:20	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		02/07/17 15:20	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		02/07/17 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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Sample: TRIP BLANK **Lab ID: 40145224007** Collected: 02/02/17 00:00 Received: 02/03/17 09:30 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		02/07/17 15:20	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		02/07/17 15:20	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		02/07/17 15:20	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		02/07/17 15:20	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		02/07/17 15:20	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		02/07/17 15:20	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		02/07/17 15:20	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		02/07/17 15:20	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		02/07/17 15:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	81	%	70-130		1		02/07/17 15:20	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		02/07/17 15:20	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		02/07/17 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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

QC Batch: 247664 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40145224001, 40145224002, 40145224003, 40145224004, 40145224005, 40145224006, 40145224007

METHOD BLANK: 1464147 Matrix: Water
Associated Lab Samples: 40145224001, 40145224002, 40145224003, 40145224004, 40145224005, 40145224006, 40145224007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	02/07/17 12:19	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	02/07/17 12:19	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	02/07/17 12:19	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	02/07/17 12:19	
1,1-Dichloroethane	ug/L	<0.24	1.0	02/07/17 12:19	
1,1-Dichloroethene	ug/L	<0.41	1.0	02/07/17 12:19	
1,1-Dichloropropene	ug/L	<0.44	1.0	02/07/17 12:19	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	02/07/17 12:19	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	02/07/17 12:19	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	02/07/17 12:19	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	02/07/17 12:19	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	02/07/17 12:19	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	02/07/17 12:19	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	02/07/17 12:19	
1,2-Dichloroethane	ug/L	<0.17	1.0	02/07/17 12:19	
1,2-Dichloropropane	ug/L	<0.23	1.0	02/07/17 12:19	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	02/07/17 12:19	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	02/07/17 12:19	
1,3-Dichloropropane	ug/L	<0.50	1.0	02/07/17 12:19	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	02/07/17 12:19	
2,2-Dichloropropane	ug/L	<0.48	1.0	02/07/17 12:19	
2-Chlorotoluene	ug/L	<0.50	1.0	02/07/17 12:19	
4-Chlorotoluene	ug/L	<0.21	1.0	02/07/17 12:19	
Benzene	ug/L	<0.50	1.0	02/07/17 12:19	
Bromobenzene	ug/L	<0.23	1.0	02/07/17 12:19	
Bromochloromethane	ug/L	<0.34	1.0	02/07/17 12:19	
Bromodichloromethane	ug/L	<0.50	1.0	02/07/17 12:19	
Bromoform	ug/L	<0.50	1.0	02/07/17 12:19	
Bromomethane	ug/L	<2.4	5.0	02/07/17 12:19	
Carbon tetrachloride	ug/L	<0.50	1.0	02/07/17 12:19	
Chlorobenzene	ug/L	<0.50	1.0	02/07/17 12:19	
Chloroethane	ug/L	<0.37	1.0	02/07/17 12:19	
Chloroform	ug/L	<2.5	5.0	02/07/17 12:19	
Chloromethane	ug/L	<0.50	1.0	02/07/17 12:19	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	02/07/17 12:19	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	02/07/17 12:19	
Dibromochloromethane	ug/L	<0.50	1.0	02/07/17 12:19	
Dibromomethane	ug/L	<0.43	1.0	02/07/17 12:19	
Dichlorodifluoromethane	ug/L	<0.22	1.0	02/07/17 12:19	
Diisopropyl ether	ug/L	<0.50	1.0	02/07/17 12:19	
Ethylbenzene	ug/L	<0.50	1.0	02/07/17 12:19	

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

QUALITY CONTROL DATA

Project: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

METHOD BLANK: 1464147 Matrix: Water
Associated Lab Samples: 40145224001, 40145224002, 40145224003, 40145224004, 40145224005, 40145224006, 40145224007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	02/07/17 12:19	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	02/07/17 12:19	
m&p-Xylene	ug/L	<1.0	2.0	02/07/17 12:19	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	02/07/17 12:19	
Methylene Chloride	ug/L	<0.23	1.0	02/07/17 12:19	
n-Butylbenzene	ug/L	<0.50	1.0	02/07/17 12:19	
n-Propylbenzene	ug/L	<0.50	1.0	02/07/17 12:19	
Naphthalene	ug/L	<2.5	5.0	02/07/17 12:19	
o-Xylene	ug/L	<0.50	1.0	02/07/17 12:19	
p-Isopropyltoluene	ug/L	<0.50	1.0	02/07/17 12:19	
sec-Butylbenzene	ug/L	<2.2	5.0	02/07/17 12:19	
Styrene	ug/L	<0.50	1.0	02/07/17 12:19	
tert-Butylbenzene	ug/L	<0.18	1.0	02/07/17 12:19	
Tetrachloroethene	ug/L	<0.50	1.0	02/07/17 12:19	
Toluene	ug/L	<0.50	1.0	02/07/17 12:19	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	02/07/17 12:19	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	02/07/17 12:19	
Trichloroethene	ug/L	<0.33	1.0	02/07/17 12:19	
Trichlorofluoromethane	ug/L	<0.18	1.0	02/07/17 12:19	
Vinyl chloride	ug/L	<0.18	1.0	02/07/17 12:19	
4-Bromofluorobenzene (S)	%	84	70-130	02/07/17 12:19	
Dibromofluoromethane (S)	%	109	70-130	02/07/17 12:19	
Toluene-d8 (S)	%	96	70-130	02/07/17 12:19	

LABORATORY CONTROL SAMPLE: 1464148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.0	98	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	51.0	102	67-130	
1,1,2-Trichloroethane	ug/L	50	50.7	101	70-130	
1,1-Dichloroethane	ug/L	50	51.7	103	70-133	
1,1-Dichloroethene	ug/L	50	48.6	97	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.4	91	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.3	91	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	51.9	104	70-130	
1,2-Dichlorobenzene	ug/L	50	52.3	105	70-130	
1,2-Dichloroethane	ug/L	50	47.5	95	70-130	
1,2-Dichloropropane	ug/L	50	55.3	111	70-130	
1,3-Dichlorobenzene	ug/L	50	52.5	105	70-130	
1,4-Dichlorobenzene	ug/L	50	55.1	110	70-130	
Benzene	ug/L	50	52.4	105	60-135	
Bromodichloromethane	ug/L	50	50.4	101	70-130	
Bromoform	ug/L	50	50.4	101	70-130	
Bromomethane	ug/L	50	52.9	106	33-130	

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

QUALITY CONTROL DATA

Project: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

LABORATORY CONTROL SAMPLE: 1464148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	52.3	105	70-138	
Chlorobenzene	ug/L	50	55.1	110	70-130	
Chloroethane	ug/L	50	49.7	99	51-130	
Chloroform	ug/L	50	48.4	97	70-130	
Chloromethane	ug/L	50	47.0	94	25-132	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	69-130	
cis-1,3-Dichloropropene	ug/L	50	49.7	99	70-130	
Dibromochloromethane	ug/L	50	48.8	98	70-130	
Dichlorodifluoromethane	ug/L	50	35.8	72	23-130	
Ethylbenzene	ug/L	50	57.4	115	70-136	
Isopropylbenzene (Cumene)	ug/L	50	61.4	123	70-140	
m&p-Xylene	ug/L	100	120	120	70-138	
Methyl-tert-butyl ether	ug/L	50	49.1	98	66-138	
Methylene Chloride	ug/L	50	50.0	100	70-130	
o-Xylene	ug/L	50	58.2	116	70-134	
Styrene	ug/L	50	56.6	113	70-133	
Tetrachloroethene	ug/L	50	57.4	115	70-138	
Toluene	ug/L	50	57.4	115	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.9	104	70-131	
trans-1,3-Dichloropropene	ug/L	50	45.2	90	69-130	
Trichloroethene	ug/L	50	54.3	109	70-130	
Trichlorofluoromethane	ug/L	50	55.3	111	50-150	
Vinyl chloride	ug/L	50	51.2	102	49-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1464192 1464193

Parameter	Units	40145239021 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	<0.50	50	50	47.7	49.8	95	100	70-134	4	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	52.1	49.9	104	100	67-130	4	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	53.6	52.1	107	104	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	47.9	49.7	96	99	70-134	4	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	50.3	49.4	101	99	68-136	2	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	47.9	46.4	96	93	62-139	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	44.7	48.0	89	96	50-150	7	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	54.9	56.0	110	112	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	54.8	52.4	110	105	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	48.9	48.6	98	97	70-130	1	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	55.5	55.2	111	110	70-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	52.4	51.6	105	103	70-131	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	56.1	53.5	112	107	70-130	5	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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1464192 1464193

Parameter	Units	40145239021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	52.3	52.6	105	105	57-138	1	20	
Bromodichloromethane	ug/L	<0.50	50	50	51.3	50.8	103	102	70-130	1	20	
Bromoform	ug/L	<0.50	50	50	53.0	51.7	106	103	70-130	2	20	
Bromomethane	ug/L	<2.4	50	50	58.2	60.8	116	122	33-130	4	27	
Carbon tetrachloride	ug/L	<0.50	50	50	50.7	51.0	101	102	70-138	1	20	
Chlorobenzene	ug/L	<0.50	50	50	55.7	54.2	111	108	70-130	3	20	
Chloroethane	ug/L	<0.37	50	50	51.9	52.4	104	105	51-130	1	20	
Chloroform	ug/L	<2.5	50	50	47.5	48.7	95	97	70-130	3	20	
Chloromethane	ug/L	<0.50	50	50	47.6	49.9	95	100	25-132	5	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	46.6	47.8	93	96	61-140	3	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	50.7	48.1	101	96	70-130	5	20	
Dibromochloromethane	ug/L	<0.50	50	50	50.1	50.8	100	102	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	34.9	38.7	70	77	23-130	10	20	
Ethylbenzene	ug/L	<0.50	50	50	58.1	59.4	116	119	70-138	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	61.1	65.2	122	130	70-152	6	20	
m&p-Xylene	ug/L	<1.0	100	100	122	127	122	127	70-140	4	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	50.4	52.6	101	105	66-139	4	20	
Methylene Chloride	ug/L	<0.23	50	50	49.3	49.7	99	99	70-130	1	20	
o-Xylene	ug/L	<0.50	50	50	58.9	62.4	118	125	70-134	6	20	
Styrene	ug/L	<0.50	50	50	56.2	59.5	112	119	70-138	6	20	
Tetrachloroethene	ug/L	<0.50	50	50	59.7	56.2	119	112	70-148	6	20	
Toluene	ug/L	<0.50	50	50	57.9	55.9	116	112	70-130	4	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	51.1	51.4	102	103	70-133	1	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	46.8	44.9	94	90	69-130	4	20	
Trichloroethene	ug/L	<0.33	50	50	54.3	54.5	109	109	70-131	0	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	54.9	56.2	110	112	50-150	2	20	
Vinyl chloride	ug/L	<0.18	50	50	50.3	50.6	101	101	49-133	1	20	
4-Bromofluorobenzene (S)	%						103	107	70-130			
Dibromofluoromethane (S)	%						93	99	70-130			
Toluene-d8 (S)	%						104	100	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: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60517316 MONONA RIVER FRONT
Pace Project No.: 40145224

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40145224001	**MW-4**	EPA 8260	247664		
40145224002	**PZ-4**	EPA 8260	247664		
40145224003	**MW-2**	EPA 8260	247664		
40145224004	**MW-1**	EPA 8260	247664		
40145224005	**MW-3**	EPA 8260	247664		
40145224006	**MW-3 DUP**	EPA 8260	247664		
40145224007	**TRIP BLANK**	EPA 8260	247664		

Pace Analytical®
www.pacelabs.com

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

CHAIN OF CUSTODY

401145224

*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:	AECOM
Branch/Location:	Milwaukee
Project Contact:	Lanette Atlenbach
Phone:	414 944 6186
Project Number:	60517316
Project Name:	Monona River Front
Project State:	WI
Sampled By (Print):	Eric Laumann
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Lanette Atlenbach
Mail To Company:	AECOM - Milwaukee Wisconsin
Mail To Address:	1555 N. River Center Drive STE 214 Milwaukee, WI 53212
Invoice To Contact:	SAME AS Above
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

Matrix Codes
A = Air, 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: VOCs	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
001	MW-4	2/2/17	1120	GW	N	B	X	3-40ml VB VOC HCL	3-40mlVB
002	PZ-4	2/2/17	1140	GW			X	" "	
003	MW-2	2/2/17	1340	GW			X	" "	
004	MW-1	2/2/17	1440	GW			X	" "	
005	MW-3	2/2/17	1530	GW			X	" "	
006	MW-3 DUP	2/2/17	1530	GW			X	" "	
007	Trip blank	—	—	QC			X	2-40mlVB HCL	2-40mlVB

Profile #:

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: 5 Day Turn Around

Transmit Prelim Rush Results by (complete what you want):
Email #1: lanette.atlenbach@AECOM.com
Email #2: Eric.Laumann@AECOM.com
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	2/2/17 1700	CS Logistics	2/2/17 1700
CS Logistics	2/3/17 0930		2/3/17 0930

PACE Project No.: 401145224

Receipt Temp = ROT °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: AECOM

Project #: WO#: 40145224

40145224

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

Tracking #: 448.0202 17

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: ROT /Corr: — Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 2/3/17
Initials: BM

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: 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: _____

Project Manager Review: _____ **Date:** 2-3-17

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

February 14, 2017

Lanette Altenbach
AECOM, Inc.- Milwaukee
1555 N River Center Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

Dear Lanette Altenbach:
Enclosed are the analytical results for sample(s) received by the laboratory on February 10, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

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: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40145550001	**MW-5**	Water	02/08/17 11:00	02/10/17 10:00
40145550002	**PZ-5**	Water	02/08/17 12:00	02/10/17 10:00

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

SAMPLE ANALYTE COUNT

Project: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40145550001	**MW-5**	EPA 8260	LAP	64	PASI-G
40145550002	**PZ-5**	EPA 8260	LAP	64	PASI-G

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

ANALYTICAL RESULTS

Project: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

Sample: MW-5 **Lab ID: 40145550001** Collected: 02/08/17 11:00 Received: 02/10/17 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		02/13/17 18:06	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		02/13/17 18:06	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		02/13/17 18:06	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		02/13/17 18:06	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		02/13/17 18:06	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		02/13/17 18:06	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		02/13/17 18:06	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		02/13/17 18:06	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		02/13/17 18:06	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		02/13/17 18:06	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		02/13/17 18:06	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		02/13/17 18:06	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		02/13/17 18:06	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		02/13/17 18:06	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		02/13/17 18:06	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		02/13/17 18:06	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/13/17 18:06	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/13/17 18:06	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		02/13/17 18:06	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		02/13/17 18:06	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		02/13/17 18:06	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		02/13/17 18:06	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		02/13/17 18:06	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		02/13/17 18:06	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		02/13/17 18:06	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		02/13/17 18:06	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		02/13/17 18:06	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		02/13/17 18:06	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: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

Sample: MW-5 **Lab ID: 40145550001** Collected: 02/08/17 11:00 Received: 02/10/17 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		02/13/17 18:06	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		02/13/17 18:06	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		02/13/17 18:06	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		02/13/17 18:06	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		02/13/17 18:06	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		02/13/17 18:06	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		02/13/17 18:06	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		02/13/17 18:06	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	80	%	70-130		1		02/13/17 18:06	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		02/13/17 18:06	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		02/13/17 18:06	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: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

Sample: PZ-5 **Lab ID: 40145550002** Collected: 02/08/17 12:00 Received: 02/10/17 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		02/13/17 18:29	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		02/13/17 18:29	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		02/13/17 18:29	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		02/13/17 18:29	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		02/13/17 18:29	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		02/13/17 18:29	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		02/13/17 18:29	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		02/13/17 18:29	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		02/13/17 18:29	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		02/13/17 18:29	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		02/13/17 18:29	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		02/13/17 18:29	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		02/13/17 18:29	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		02/13/17 18:29	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		02/13/17 18:29	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		02/13/17 18:29	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/13/17 18:29	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/13/17 18:29	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		02/13/17 18:29	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		02/13/17 18:29	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		02/13/17 18:29	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		02/13/17 18:29	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		02/13/17 18:29	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		02/13/17 18:29	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		02/13/17 18:29	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		02/13/17 18:29	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		02/13/17 18:29	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		02/13/17 18:29	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: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

Sample: PZ-5 **Lab ID: 40145550002** Collected: 02/08/17 12:00 Received: 02/10/17 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		02/13/17 18:29	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		02/13/17 18:29	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		02/13/17 18:29	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		02/13/17 18:29	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		02/13/17 18:29	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		02/13/17 18:29	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		02/13/17 18:29	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		02/13/17 18:29	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		02/13/17 18:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		02/13/17 18:29	460-00-4	
Dibromofluoromethane (S)	118	%	70-130		1		02/13/17 18:29	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		02/13/17 18:29	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: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

QC Batch: 248133 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40145550001, 40145550002

METHOD BLANK: 1466905 Matrix: Water
Associated Lab Samples: 40145550001, 40145550002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	02/13/17 11:42	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	02/13/17 11:42	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	02/13/17 11:42	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	02/13/17 11:42	
1,1-Dichloroethane	ug/L	<0.24	1.0	02/13/17 11:42	
1,1-Dichloroethene	ug/L	<0.41	1.0	02/13/17 11:42	
1,1-Dichloropropene	ug/L	<0.44	1.0	02/13/17 11:42	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	02/13/17 11:42	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	02/13/17 11:42	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	02/13/17 11:42	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	02/13/17 11:42	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	02/13/17 11:42	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	02/13/17 11:42	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	02/13/17 11:42	
1,2-Dichloroethane	ug/L	<0.17	1.0	02/13/17 11:42	
1,2-Dichloropropane	ug/L	<0.23	1.0	02/13/17 11:42	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	02/13/17 11:42	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	02/13/17 11:42	
1,3-Dichloropropane	ug/L	<0.50	1.0	02/13/17 11:42	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	02/13/17 11:42	
2,2-Dichloropropane	ug/L	<0.48	1.0	02/13/17 11:42	
2-Chlorotoluene	ug/L	<0.50	1.0	02/13/17 11:42	
4-Chlorotoluene	ug/L	<0.21	1.0	02/13/17 11:42	
Benzene	ug/L	<0.50	1.0	02/13/17 11:42	
Bromobenzene	ug/L	<0.23	1.0	02/13/17 11:42	
Bromochloromethane	ug/L	<0.34	1.0	02/13/17 11:42	
Bromodichloromethane	ug/L	<0.50	1.0	02/13/17 11:42	
Bromoform	ug/L	<0.50	1.0	02/13/17 11:42	
Bromomethane	ug/L	<2.4	5.0	02/13/17 11:42	
Carbon tetrachloride	ug/L	<0.50	1.0	02/13/17 11:42	
Chlorobenzene	ug/L	<0.50	1.0	02/13/17 11:42	
Chloroethane	ug/L	<0.37	1.0	02/13/17 11:42	
Chloroform	ug/L	<2.5	5.0	02/13/17 11:42	
Chloromethane	ug/L	<0.50	1.0	02/13/17 11:42	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	02/13/17 11:42	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	02/13/17 11:42	
Dibromochloromethane	ug/L	<0.50	1.0	02/13/17 11:42	
Dibromomethane	ug/L	<0.43	1.0	02/13/17 11:42	
Dichlorodifluoromethane	ug/L	<0.22	1.0	02/13/17 11:42	
Diisopropyl ether	ug/L	<0.50	1.0	02/13/17 11:42	
Ethylbenzene	ug/L	<0.50	1.0	02/13/17 11:42	

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

QUALITY CONTROL DATA

Project: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

METHOD BLANK: 1466905 Matrix: Water
Associated Lab Samples: 40145550001, 40145550002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	02/13/17 11:42	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	02/13/17 11:42	
m&p-Xylene	ug/L	<1.0	2.0	02/13/17 11:42	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	02/13/17 11:42	
Methylene Chloride	ug/L	<0.23	1.0	02/13/17 11:42	
n-Butylbenzene	ug/L	<0.50	1.0	02/13/17 11:42	
n-Propylbenzene	ug/L	<0.50	1.0	02/13/17 11:42	
Naphthalene	ug/L	<2.5	5.0	02/13/17 11:42	
o-Xylene	ug/L	<0.50	1.0	02/13/17 11:42	
p-Isopropyltoluene	ug/L	<0.50	1.0	02/13/17 11:42	
sec-Butylbenzene	ug/L	<2.2	5.0	02/13/17 11:42	
Styrene	ug/L	<0.50	1.0	02/13/17 11:42	
tert-Butylbenzene	ug/L	<0.18	1.0	02/13/17 11:42	
Tetrachloroethene	ug/L	<0.50	1.0	02/13/17 11:42	
Toluene	ug/L	<0.50	1.0	02/13/17 11:42	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	02/13/17 11:42	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	02/13/17 11:42	
Trichloroethene	ug/L	<0.33	1.0	02/13/17 11:42	
Trichlorofluoromethane	ug/L	<0.18	1.0	02/13/17 11:42	
Vinyl chloride	ug/L	<0.18	1.0	02/13/17 11:42	
4-Bromofluorobenzene (S)	%	84	70-130	02/13/17 11:42	
Dibromofluoromethane (S)	%	112	70-130	02/13/17 11:42	
Toluene-d8 (S)	%	90	70-130	02/13/17 11:42	

LABORATORY CONTROL SAMPLE: 1466906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.5	99	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	48.4	97	67-130	
1,1,2-Trichloroethane	ug/L	50	52.0	104	70-130	
1,1-Dichloroethane	ug/L	50	45.3	91	70-133	
1,1-Dichloroethene	ug/L	50	46.3	93	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.4	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.8	92	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	55.8	112	70-130	
1,2-Dichlorobenzene	ug/L	50	53.7	107	70-130	
1,2-Dichloroethane	ug/L	50	47.9	96	70-130	
1,2-Dichloropropane	ug/L	50	52.8	106	70-130	
1,3-Dichlorobenzene	ug/L	50	52.6	105	70-130	
1,4-Dichlorobenzene	ug/L	50	55.8	112	70-130	
Benzene	ug/L	50	47.0	94	60-135	
Bromodichloromethane	ug/L	50	54.6	109	70-130	
Bromoform	ug/L	50	57.4	115	70-130	
Bromomethane	ug/L	50	40.3	81	33-130	

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

QUALITY CONTROL DATA

Project: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

LABORATORY CONTROL SAMPLE: 1466906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	54.6	109	70-138	
Chlorobenzene	ug/L	50	57.1	114	70-130	
Chloroethane	ug/L	50	44.0	88	51-130	
Chloroform	ug/L	50	47.8	96	70-130	
Chloromethane	ug/L	50	37.7	75	25-132	
cis-1,2-Dichloroethene	ug/L	50	44.7	89	69-130	
cis-1,3-Dichloropropene	ug/L	50	52.3	105	70-130	
Dibromochloromethane	ug/L	50	54.1	108	70-130	
Dichlorodifluoromethane	ug/L	50	27.2	54	23-130	
Ethylbenzene	ug/L	50	58.7	117	70-136	
Isopropylbenzene (Cumene)	ug/L	50	65.0	130	70-140	
m&p-Xylene	ug/L	100	127	127	70-138	
Methyl-tert-butyl ether	ug/L	50	47.4	95	66-138	
Methylene Chloride	ug/L	50	46.7	93	70-130	
o-Xylene	ug/L	50	60.5	121	70-134	
Styrene	ug/L	50	61.1	122	70-133	
Tetrachloroethene	ug/L	50	62.0	124	70-138	
Toluene	ug/L	50	57.4	115	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.9	98	70-131	
trans-1,3-Dichloropropene	ug/L	50	47.3	95	69-130	
Trichloroethene	ug/L	50	56.1	112	70-130	
Trichlorofluoromethane	ug/L	50	55.9	112	50-150	
Vinyl chloride	ug/L	50	43.7	87	49-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1467091 1467092

Parameter	Units	40145431007 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	<2.5	250	250	238	248	95	99	70-134	4	20	
1,1,2,2-Tetrachloroethane	ug/L	<1.2	250	250	246	239	98	96	67-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.99	250	250	258	241	103	96	70-130	7	20	
1,1-Dichloroethane	ug/L	<1.2	250	250	218	220	87	88	70-134	1	20	
1,1-Dichloroethene	ug/L	<2.1	250	250	203	206	81	82	68-136	1	20	
1,2,4-Trichlorobenzene	ug/L	<11.0	250	250	263	254	105	102	62-139	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<10.8	250	250	258	253	103	101	50-150	2	20	
1,2-Dibromoethane (EDB)	ug/L	<0.89	250	250	265	266	106	106	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<2.5	250	250	275	276	110	110	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.84	250	250	260	262	104	105	70-130	1	20	
1,2-Dichloropropane	ug/L	<1.2	250	250	253	249	101	100	70-130	2	20	
1,3-Dichlorobenzene	ug/L	<2.5	250	250	272	269	109	108	70-131	1	20	
1,4-Dichlorobenzene	ug/L	<2.5	250	250	277	274	111	110	70-130	1	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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1467091 1467092

Parameter	Units	40145431007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	602	250	250	781	791	72	76	57-138	1	20	
Bromodichloromethane	ug/L	<2.5	250	250	256	242	102	97	70-130	6	20	
Bromoform	ug/L	<2.5	250	250	271	243	108	97	70-130	11	20	
Bromomethane	ug/L	<12.2	250	250	234	232	94	93	33-130	1	27	
Carbon tetrachloride	ug/L	<2.5	250	250	257	267	103	107	70-138	4	20	
Chlorobenzene	ug/L	<2.5	250	250	269	262	107	105	70-130	3	20	
Chloroethane	ug/L	<1.9	250	250	220	225	88	90	51-130	2	20	
Chloroform	ug/L	<12.5	250	250	234	235	94	94	70-130	0	20	
Chloromethane	ug/L	<2.5	250	250	170	174	68	70	25-132	2	20	
cis-1,2-Dichloroethene	ug/L	<1.3	250	250	220	223	88	89	61-140	1	20	
cis-1,3-Dichloropropene	ug/L	<2.5	250	250	243	244	97	97	70-130	0	20	
Dibromochloromethane	ug/L	<2.5	250	250	260	239	104	96	70-130	8	20	
Dichlorodifluoromethane	ug/L	<1.1	250	250	120	123	48	49	23-130	3	20	
Ethylbenzene	ug/L	195	250	250	502	482	123	115	70-138	4	20	
Isopropylbenzene (Cumene)	ug/L	9.6	250	250	307	296	119	114	70-152	4	20	
m&p-Xylene	ug/L	520	500	500	1140	1070	125	110	70-140	7	20	
Methyl-tert-butyl ether	ug/L	53.9	250	250	291	294	95	96	66-139	1	20	
Methylene Chloride	ug/L	<1.2	250	250	229	241	92	96	70-130	5	20	
o-Xylene	ug/L	199	250	250	509	496	124	119	70-134	3	20	
Styrene	ug/L	<2.5	250	250	130	30.7	52	12	70-138	124	20	M1,R1
Tetrachloroethene	ug/L	<2.5	250	250	293	281	117	112	70-148	4	20	
Toluene	ug/L	579	250	250	856	841	111	105	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<1.3	250	250	227	226	91	90	70-133	1	20	
trans-1,3-Dichloropropene	ug/L	<1.1	250	250	234	214	94	86	69-130	9	20	
Trichloroethene	ug/L	<1.7	250	250	260	268	104	107	70-131	3	20	
Trichlorofluoromethane	ug/L	<0.92	250	250	273	277	109	111	50-150	2	20	
Vinyl chloride	ug/L	<0.88	250	250	201	207	80	83	49-133	3	20	
4-Bromofluorobenzene (S)	%						100	99	70-130			
Dibromofluoromethane (S)	%						90	94	70-130			
Toluene-d8 (S)	%						97	97	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: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

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

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60517316 MONONA REDEVELOPMENT
Pace Project No.: 40145550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40145550001	**MW-5**	EPA 8260	248133		
40145550002	**PZ-5**	EPA 8260	248133		

Pace Analytical®

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

Page 1 of

COC No. 40145550

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:	AECOM
Branch/Location:	Milwaukee
Project Contact:	Lanette Altenbach
Phone:	414-944-6186
Project Number:	60517316
Project Name:	Monona Redevelopment
Project State:	Monona, Wisconsin
Sampled By (Print):	Paulo Florio
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Lanette Altenbach
Mail To Company:	AECOM
Mail To Address:	1555 N. RiverCenter Dr Suite 214 Milwaukee, WI 53212
Invoice To Contact:	- Same -
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	Analyses Requested: Pick Letter	Analyses Requested: Y/N	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					B	N			
001	MW-5	2/8/17	11:00	GW	G	3		3-40ml VOCs	
002	PZ-5	2/8/17	12:00	GW	G	3		↓	

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:
Paulo Florio	2-9-17 / 16:00		
Fed Ex	2/10/17 1000	pace	2/10/17 1000

PACE Project No. 40145550

Receipt Temp = ROI °C

Sample Receipt pH ~~OK / Adjusted~~

Cooler Custody Seal Present / Not Present

Intact / Not Intact

Version 6.0 08/14/06

Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: AECOM

Project # **WO# : 40145550**

40145550

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

Tracking #: 7783 9431 1666

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: ROI /Corr: — **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 2/10/17
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. 008 2-40ml, 8 no ID matched by pairing in Shipping BH 2/10/17
-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):		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 2-10-17