



March 8, 2018

Wisconsin Department of Natural Resources
Tom Coogan – RR/5
101 S. Webster Street
PO Box 7921
Madison, Wisconsin 53707

Wisconsin Department of Natural Resources
Matt Thompson
Hydrogeologist – Remediation and Redevelopment
1300 W. Clairemont Avenue
Eau Claire, Wisconsin 54701

SUBJECT: SAMPLE RESULTS NOTIFICATION

**SITE: US EPA BROWNFIELDS ASSESSMENT COALITION GRANT #BF-00E02021
FORMER PITTSVILLE FUR FOOD/RIGHT-OF-WAY (WCS-074)
8161 JEFFERSON STREET
PITTSVILLE, WOOD COUNTY, WISCONSIN 54466
RAMAKER & ASSOCIATES, INC. PROJECT # 36020**

Dear Mr. Coogan and Mr. Thompson:

Sample results from soil and groundwater sampling at the site identified above are enclosed. For your convenience, the tabulated results of sampling conducted in October/November are also included. Further analysis of the results will be detailed within the forthcoming Site Investigation Report, following additional field work.

Pertinent site information is included below:

Responsible Party:	City of Pittsville PO Box 100 Pittsville, Wood County, Wisconsin 54466 Phone Number: (715) 884-2422
WDNR Project Manager:	Matt Thompson – Wisconsin DNR Phone Number: (715) 839-3750
Sampling Dates:	January 24, 2018 (soil) and February 8, 2018 (water)

Should you have any questions and/or comments, please do not hesitate to contact our office.

Sincerely,

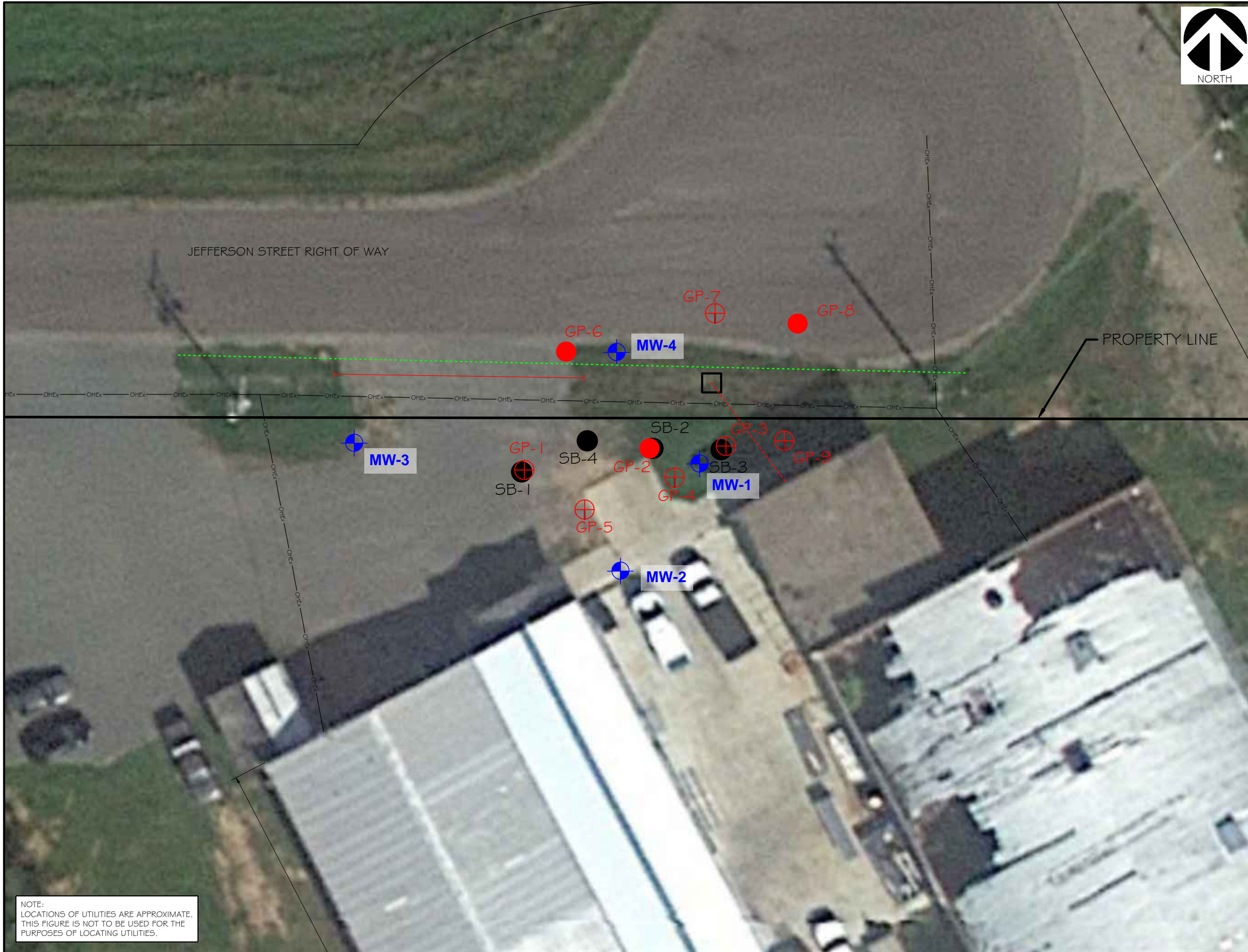
RAMAKER & ASSOCIATES

Jodie M. Peotter, P.G.
Environmental Service Group Leader

Enclosures

- Site Plan with Sample Locations
- Table 1 – Soil Analytical Tables
- Table 2 – Groundwater Analytical Tables
- Laboratory Analytical Results Report with Quality Control Information & COCs





CLIENT:
 101 SOUTH WEBSTER STREET, PO BOX 7921
 MADISON, WISCONSIN 53707

PREPARED BY:
RAMAKER & ASSOCIATES, INC.
 100% EMPLOYEE-OWNED
 855 Community Dr, Sauk City, WI 53583
 608-643-4100 www.Ramaker.com
 Sauk City, WI • Willmar, MN
 Woodcliff Lake, NJ • Bayamon, PR

PROJECT NUMBER: 36020

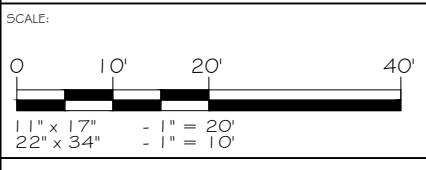
MARK	DATE	DESCRIPTION

- LEGEND**
- SOIL BORING FROM PREVIOUS INVESTIGATION
 - SOIL BORING
 - ⊕ SOIL BORING CONVERTED TO TEMP WELL
 - OHEx — EXISTING OVERHEAD ELECTRIC
 - PUMP
 - - - UNDERGROUND SEWER
 - — — UNDERGROUND ELECTRIC
 - ⊕ MONITORING WELL

ISSUE PHASE	LIMITED SI	DATE ISSUED	3/8/2018
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SITE NAME: FORMER PITTSVILLE FUR FOODS/RIGHT-OF-WAY
 ADDRESS: 8161 JEFFERSON STREET
 PITTSVILLE, WISCONSIN 54466

SHEET TITLE:
SITE PLAN WITH SAMPLE LOCATIONS



SHEET NUMBER: A-3

NOTE:
 LOCATIONS OF UTILITIES ARE APPROXIMATE.
 THIS FIGURE IS NOT TO BE USED FOR THE
 PURPOSES OF LOCATING UTILITIES.

Analytical Tables Key

Project Number 36020

Former Pittsville Fur Foods/Right-of-way

8161 Jefferson Street

Pittsville, Wisconsin 54466



* Based on pH

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

NA Not Analyzed

<25.0 Result below laboratory detection limit

<25.0 Most stringent cleanup value is less than laboratory detection limit for this parameter

39.5 Result exceeds the PAL

39.5 Result exceeds the ES

--- No established value

1 Full list VOCs were run on the trip blank, no hits were identified

B Analyte was detected in the associated method blank.

Soil Analytical Table - Inorganics

Project Number 36020

Former Pittsville Fur Foods/Right-of-way

8161 Jefferson Street

Pittsville, Wisconsin 54466



Sample/Sample Date/ Units		NR 140 ES (ug/L)	NR 140 PAL (ug/L)	Trip Blank (PB-TB-04) 2/8/2018 (ug/L)	PV-GW-MW1-01 2/8/2018 (ug/L)	PV-GW-MW2-01 2/8/2018 (ug/L)	PV-GW-MW2-01 (FD-02) 2/8/2018 (ug/L)	PV-GW-MW3-01 2/8/2018 (ug/L)	PV-GW-MW4-01 2/8/2018 (ug/L)
Parameter	CAS								
Lead	7439-92-1	15	1.5	NA	<0.20	<0.20	<0.20	<0.20	<0.20

Groundwater Analytical Table - PVOCs

Project Number 36020
 Former Pittsville Fur Foods/Right-of-way
 8161 Jefferson Street
 Pittsville, Wisconsin 54466



Sample/Sample Date/ Parameter	Units	CAS	NR 140 ES (ug/L)	NR 140 PAL (ug/L)	Trip Blank ¹ (PV-TB-01) (ug/L)	PV-GW-GP-01 10/31/2017 (ug/L)	PV-GW-GP-03 11/1/2017 (ug/L)	PV-GW-GP-04 11/1/2017 (ug/L)	PV-GW-GP-04 (FD-01) 11/1/2017 (ug/L)
1,2,4-Trimethylbenzene		95-63-6	480 (total TMBs)	96 (total TMBs)	<0.50	<0.42	1590	975	531
1,3,5-Trimethylbenzene		108-67-8	480 (total TMBs)	96 (total TMBs)	<0.50	<0.42	479	291	136
Benzene		71-43-2	5	0.5	<0.50	<0.40	<7.9	788	561
Ethylbenzene		100-41-4	700	140	<0.50	<0.39	383	1130	742
m&p-Xylene		179601-23-1	2000 (total xylenes)	400 (total xylenes)	<0.17	<0.80	1170	2620	1560
Methyl-tert-butyl ether		1634-04-4	60	12	<2.5	2.0	16.1 J	<9.7	<4.8
Naphthalene		91-20-3	100	10	<0.50	<0.42	92.5	118	76.8
o-Xylene		95-47-6	2000 (total xylenes)	400 (total xylenes)	<1.0	<0.45	166	192	117
Toluene		108-88-3	800	160	<0.50	<0.39	32.4	236	154

Groundwater Analytical Table - PVOCs

Project Number 36020
 Former Pittsville Fur Foods/Right-of-way
 8161 Jefferson Street
 Pittsville, Wisconsin 54466



Parameter \ Sample/Sample Date/ Units	CAS	NR 140 ES (ug/L)	NR 140 PAL (ug/L)	Trip Blank ¹ (PV-TB-01) (ug/L)	PV-GW-GP-05 11/1/2017 (ug/L)	PV-GW-GP-07 11/1/2017 (ug/L)	PV-GW-GP-09 11/1/2017 (ug/L)
1,2,4-Trimethylbenzene	95-63-6	480 (total TMBs)	96 (total TMBs)	<0.50	<0.42	<0.42	<0.42
1,3,5-Trimethylbenzene	108-67-8	480 (total TMBs)	96 (total TMBs)	<0.50	<0.42	<0.42	<0.42
Benzene	71-43-2	5	0.5	<0.50	<0.40	<0.40	<0.40
Ethylbenzene	100-41-4	700	140	<0.50	<0.39	<0.39	<0.39
m&p-Xylene	179601-23-1	2000 (total xylenes)	400 (total xylenes)	<0.17	<0.80	<0.80	<0.80
Methyl-tert-butyl ether	1634-04-4	60	12	<2.5	<0.48	<0.48	1.3
Naphthalene	91-20-3	100	10	<0.50	<0.42	<0.42	<0.42
o-Xylene	95-47-6	2000 (total xylenes)	400 (total xylenes)	<1.0	<0.45	<0.45	<0.45
Toluene	108-88-3	800	160	<0.50	<0.39	<0.39	<0.39

Groundwater Analytical Table - PAHs

Project Number 36020
 Former Pittsville Fur Foods/Right-of-way
 8161 Jefferson Street
 Pittsville, Wisconsin 54466



Parameter	Sample/Sample Date/ Units	CAS	NR 140 ES	NR 140 PAL	Trip Blank	PV-GW-MW1-01	PV-GW-MW2-01	PV-GW-MW2-01	PV-GW-MW3-01	PV-GW-MW4-01
			(ug/L)	(ug/L)	(PB-TB-04) 2/8/2018 (ug/L)	2/8/2018 (ug/L)	2/8/2018 (ug/L)	(FD-02) 2/8/2018 (ug/L)	2/8/2018 (ug/L)	2/8/2018 (ug/L)
1-Methylnaphthalene		90-12-0	---	---	NA	0.0094 J	0.0083 J	0.011 J	0.026 J	0.0072 J
2-Methylnaphthalene		91-57-6	---	---	NA	0.0076 J	0.0091 J	0.0084 J	0.046	0.0065 J
Acenaphthene		83-32-9	---	---	NA	0.0062 J	<0.0058	<0.0059	0.068	0.0090 J
Acenaphthylene		208-96-8	---	---	NA	<0.0049	<0.0048	<0.0048	0.037	<0.0049
Anthracene		120-12-7	3,000	600	NA	<0.010	<0.010	<0.010	0.052	<0.010
Benzo(a)anthracene		56-55-3	---	---	NA	<0.0075	<0.0073	<0.0073	<0.0073	<0.0075
Benzo(a)pyrene		50-32-8	0.2	0.02	NA	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(b)fluoranthene		205-99-2	0.2	0.02	NA	<0.0057	<0.0055	<0.0056	<0.0055	<0.0057
Benzo(g,h,i)perylene		191-24-2	---	---	NA	<0.0067	<0.0065	<0.0066	<0.0065	<0.0067
Benzo(k)fluoranthene		207-08-9	---	---	NA	<0.0075	<0.0073	<0.0073	<0.0073	<0.0075
Chrysene		218-01-9	0.2	0.02	NA	<0.013	<0.013	<0.013	<0.013	<0.013
Dibenz(a,h)anthracene		53-70-3	---	---	NA	<0.0099	<0.0096	<0.0097	<0.0096	<0.0099
Fluoranthene		206-44-0	400	80	NA	<0.011	<0.010	<0.010	0.061	<0.011
Fluorene		86-73-7	400	80	NA	<0.0079	<0.0077	<0.0077	0.062	0.012 J
Indeno(1,2,3-cd)pyrene		193-39-5	---	---	NA	<0.017	<0.017	<0.017	<0.017	<0.017
Naphthalene		91-20-3	100	10	NA	0.040 J	<0.018	<0.018	0.1	<0.018
Phenanthrene		85-01-8	---	---	NA	<0.014	<0.013	<0.013	0.2	<0.014
Pyrene		129-00-0	250	50	NA	0.011 J (B)	0.0095 J (B)	0.011 J (B)	0.034 J (B)	0.012 J (B)

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NA Not Analyzed

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--- No established value

1 Full list VOCs were run on the trip blank, no hits were identified

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Soil Analytical Table - Inorganics

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Former Pittsville Fur Foods/Right-of-way

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Sample/Sample Date/ Units	CAS	NR 140 ES (ug/L)	NR 140 PAL (ug/L)	Trip Blank (PB-TB-04) 2/8/2018 (ug/L)	PV-GW-MW1-01 2/8/2018 (ug/L)	PV-GW-MW2-01 2/8/2018 (ug/L)	PV-GW-MW2-01 (FD-02) 2/8/2018 (ug/L)	PV-GW-MW3-01 2/8/2018 (ug/L)	PV-GW-MW4-01 2/8/2018 (ug/L)
Lead	7439-92-1	15	1.5	NA	<0.20	<0.20	<0.20	<0.20	<0.20

Groundwater Analytical Table - VOCs

Project Number 36020

Former Pittsville Fur Foods/Right-of-way

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Pittsville, Wisconsin 54466



Sample/Sample Date/ Parameter	Units	NR 140 ES (ug/L)	NR 140 PAL (ug/L)	Trip Blank (PB-TB-04)	PV-GW-MW1-01	PV-GW-MW2-01	PV-GW-MW2-01 (FD-02)	PV-GW-MW3-01	PV-GW-MW4-01
				2/8/2018 (ug/L)	2/8/2018 (ug/L)	2/8/2018 (ug/L)	2/8/2018 (ug/L)	2/8/2018 (ug/L)	
1,1,1,2-Tetrachloroethane	630-20-6	70	7	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,1,1-Trichloroethane	71-55-6	200	40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.02	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	79-00-5	5	0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	75-34-3	850	85	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethene	75-35-4	7	0.7	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
1,1-Dichloropropene	563-58-6	---	---	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
1,2,3-Trichlorobenzene	87-61-6	---	---	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,2,3-Trichloropropane	96-18-4	60	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	70	14	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,2,4-Trimethylbenzene	95-63-6	480 (total TMBs)	96 (total TMBs)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane	96-12-8	0.2	0.02	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,2-Dibromoethane (EDB)	106-93-4	0.05	0.005	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
1,2-Dichlorobenzene	95-50-1	600	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	5	0.5	<0.17	4.8	3.9	4	2.6	3.3
1,2-Dichloropropane	78-87-5	5	0.5	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
1,3,5-Trimethylbenzene	108-67-8	480 (total TMBs)	96 (total TMBs)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	541-73-1	600	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane	142-28-9	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	75	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane	594-20-7	---	---	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
2-Butanone	78-93-3	4000	800	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
2-Chlorotoluene	95-49-8	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Hexanone	591-78-6	---	---	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
4-Chlorotoluene	106-43-4	---	---	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
4-Methyl-2-pentanone	108-10-1	500	50	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Acetone	67-64-1	9000	1800	<3.0	<3.0	<3.0	12.3 J	<3.0	<3.0
Benzene	71-43-2	5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	108-86-1	---	---	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Bromochloromethane	74-97-5	---	---	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
Bromodichloromethane	75-27-4	0.6	0.06	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	75-25-2	4.4	0.44	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	74-83-9	10	1	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Carbon disulfide	75-15-0	1000	200	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61
Carbon tetrachloride	56-23-5	5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	100	20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	75-00-3	400	80	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Chloroform	67-66-3	6	0.6	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Chloromethane	74-87-3	30	3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	70	7	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
cis-1,3-Dichloropropene	10061-01-5	0.4	0.04	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	124-48-1	60	6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane	74-95-3	---	---	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
Dichlorodifluoromethane	75-71-8	1000	200	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
Diisopropyl ether	108-20-3	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	100-41-4	700	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	---	---	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Isopropylbenzene (Cumene)	98-82-8	---	---	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
m&p-Xylene	179601-23-1	2000 (total xylenes)	400 (total xylenes)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	75-09-2	5	0.5	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Methyl-tert-butyl ether	1634-04-4	60	12	<0.17	1.4	1.4	1.4	0.45 J	1
Naphthalene	91-20-3	100	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
n-Butylbenzene	104-51-8	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene	103-65-1	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene	95-47-6	2000 (total xylenes)	400 (total xylenes)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
p-Isopropyltoluene	99-87-6	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene	135-98-8	---	---	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Styrene	100-42-5	100	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
tert-Butylbenzene	98-06-6	---	---	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Tetrachloroethene (PCE)	127-18-4	5	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrahydrofuran	109-99-9	50	10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	108-88-3	800	160	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	156-60-5	100	20	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
trans-1,3-Dichloropropene	10061-02-6	0.4	0.04	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Trichloroethene (TCE)	79-01-6	5	0.5	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Trichlorofluoromethane	75-69-4	3490	698	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Vinyl acetate	108-05-4	---	---	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92
Vinyl chloride	75-01-4	0.2	0.02	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18

Groundwater Analytical Table - PVOCs

Project Number 36020

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Sample/Sample Date/ Units Parameter	CAS	NR 140 ES (ug/L)	NR 140 PAL (ug/L)	Trip Blank ¹ (PV-TB-01) (ug/L)	PV-GW-GP-01 10/31/2017 (ug/L)	PV-GW-GP-03 11/1/2017 (ug/L)	PV-GW-GP-04 11/1/2017 (ug/L)	PV-GW-GP-04 (FD-01) 11/1/2017 (ug/L)
1,2,4-Trimethylbenzene	95-63-6	480 (total TMBs)	96 (total TMBs)	<0.50	<0.42	<u>1590</u>	<u>975</u>	<u>531</u>
1,3,5-Trimethylbenzene	108-67-8	480 (total TMBs)	96 (total TMBs)	<0.50	<0.42	<u>479</u>	<u>291</u>	<u>136</u>
Benzene	71-43-2	5	0.5	<0.50	<0.40	<7.9	<u>788</u>	<u>561</u>
Ethylbenzene	100-41-4	700	140	<0.50	<0.39	<u>383</u>	<u>1130</u>	<u>742</u>
m&p-Xylene	179601-23-1	2000 (total xylenes)	400 (total xylenes)	<0.17	<0.80	<u>1170</u>	<u>2620</u>	<u>1560</u>
Methyl-tert-butyl ether	1634-04-4	60	12	<2.5	2.0	<u>16.1 J</u>	<9.7	<4.8
Naphthalene	91-20-3	100	10	<0.50	<0.42	<u>92.5</u>	<u>118</u>	<u>76.8</u>
o-Xylene	95-47-6	2000 (total xylenes)	400 (total xylenes)	<1.0	<0.45	<u>166</u>	<u>192</u>	<u>117</u>
Toluene	108-88-3	800	160	<0.50	<0.39	32.4	<u>236</u>	154

Groundwater Analytical Table - PVOCs

Project Number 36020

Former Pittsville Fur Foods/Right-of-way

8161 Jefferson Street

Pittsville, Wisconsin 54466



Sample/Sample Date/ Units Parameter	CAS	NR 140 ES (ug/L)	NR 140 PAL (ug/L)	Trip Blank ¹ (PV-TB-01) (ug/L)	PV-GW-GP-05 11/1/2017 (ug/L)	PV-GW-GP-07 11/1/2017 (ug/L)	PV-GW-GP-09 11/1/2017 (ug/L)
1,2,4-Trimethylbenzene	95-63-6	480 (total TMBs)	96 (total TMBs)	<0.50	<0.42	<0.42	<0.42
1,3,5-Trimethylbenzene	108-67-8	480 (total TMBs)	96 (total TMBs)	<0.50	<0.42	<0.42	<0.42
Benzene	71-43-2	5	0.5	<0.50	<0.40	<0.40	<0.40
Ethylbenzene	100-41-4	700	140	<0.50	<0.39	<0.39	<0.39
m&p-Xylene	179601-23-1	2000 (total xylenes)	400 (total xylenes)	<0.17	<0.80	<0.80	<0.80
Methyl-tert-butyl ether	1634-04-4	60	12	<2.5	<0.48	<0.48	1.3
Naphthalene	91-20-3	100	10	<0.50	<0.42	<0.42	<0.42
o-Xylene	95-47-6	2000 (total xylenes)	400 (total xylenes)	<1.0	<0.45	<0.45	<0.45
Toluene	108-88-3	800	160	<0.50	<0.39	<0.39	<0.39

Groundwater Analytical Table - PAHs

Project Number 36020

Former Pittsville Fur Foods/Right-of-way

8161 Jefferson Street

Pittsville, Wisconsin 54466



Sample/Sample Date/ Units Parameter	CAS	NR 140 ES (ug/L)	NR 140 PAL (ug/L)	Trip Blank (PB-TB-04)	PV-GW-MW1-01	PV-GW-MW2-01	PV-GW-MW2-01 (FD-02)	PV-GW-MW3-01	PV-GW-MW4-01
				2/8/2018 (ug/L)	2/8/2018 (ug/L)	2/8/2018 (ug/L)	2/8/2018 (ug/L)	2/8/2018 (ug/L)	
1-Methylnaphthalene	90-12-0	---	---	NA	0.0094 J	0.0083 J	0.011 J	0.026 J	0.0072 J
2-Methylnaphthalene	91-57-6	---	---	NA	0.0076 J	0.0091 J	0.0084 J	0.046	0.0065 J
Acenaphthene	83-32-9	---	---	NA	0.0062 J	<0.0058	<0.0059	0.068	0.0090 J
Acenaphthylene	208-96-8	---	---	NA	<0.0049	<0.0048	<0.0048	0.037	<0.0049
Anthracene	120-12-7	3,000	600	NA	<0.010	<0.010	<0.010	0.052	<0.010
Benzo(a)anthracene	56-55-3	---	---	NA	<0.0075	<0.0073	<0.0073	<0.0073	<0.0075
Benzo(a)pyrene	50-32-8	0.2	0.02	NA	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(b)fluoranthene	205-99-2	0.2	0.02	NA	<0.0057	<0.0055	<0.0056	<0.0055	<0.0057
Benzo(g,h,i)perylene	191-24-2	---	---	NA	<0.0067	<0.0065	<0.0066	<0.0065	<0.0067
Benzo(k)fluoranthene	207-08-9	---	---	NA	<0.0075	<0.0073	<0.0073	<0.0073	<0.0075
Chrysene	218-01-9	0.2	0.02	NA	<0.013	<0.013	<0.013	<0.013	<0.013
Dibenz(a,h)anthracene	53-70-3	---	---	NA	<0.0099	<0.0096	<0.0097	<0.0096	<0.0099
Fluoranthene	206-44-0	400	80	NA	<0.011	<0.010	<0.010	0.061	<0.011
Fluorene	86-73-7	400	80	NA	<0.0079	<0.0077	<0.0077	0.062	0.012 J
Indeno(1,2,3-cd)pyrene	193-39-5	---	---	NA	<0.017	<0.017	<0.017	<0.017	<0.017
Naphthalene	91-20-3	100	10	NA	0.040 J	<0.018	<0.018	0.1	<0.018
Phenanthrene	85-01-8	---	---	NA	<0.014	<0.013	<0.013	0.2	<0.014
Pyrene	129-00-0	250	50	NA	0.011 J (B)	0.0095 J (B)	0.011 J (B)	0.034 J (B)	0.012 J (B)

February 12, 2018

Jodie Peotter
Ramaker & Associates, Inc.
855 Community Drive
Sauk City, WI 53583

RE: Project: 36020 WAM
Pace Project No.: 40163966

Dear Jodie Peotter:

Enclosed are the analytical results for sample(s) received by the laboratory on January 26, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mike Ursin, Ramaker & Associates, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 36020 WAM

Pace Project No.: 40163966

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 36020 WAM
Pace Project No.: 40163966

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40163966001	PV-SB-MW-02-02	Solid	01/24/18 09:57	01/26/18 09:15
40163966002	PV-SB-MW-02-04	Solid	01/24/18 10:10	01/26/18 09:15
40163966003	PV-FD-01	Solid	01/24/18 10:03	01/26/18 09:15
40163966004	PV-SB-MW-03-01	Solid	01/24/18 09:17	01/26/18 09:15
40163966005	PV-SB-MW-04-01	Solid	01/24/18 11:25	01/26/18 09:15
40163966006	PV-SB-MW-04-03	Solid	01/24/18 11:31	01/26/18 09:15
40163966007	PV-SB-MW-01-02	Solid	01/24/18 14:10	01/26/18 09:15
40163966008	PV-SB-MW-01-03	Solid	01/24/18 14:18	01/26/18 09:15
40163966009	PV-EB-01	Water	01/24/18 08:29	01/26/18 09:15
40163966010	PV-EB-02	Water	01/24/18 08:38	01/26/18 09:15
40163966011	TRIP BLANK	Solid	01/24/18 00:00	01/26/18 09:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 36020 WAM
Pace Project No.: 40163966

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40163966001	PV-SB-MW-02-02	EPA 6010	JLD	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	71	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40163966002	PV-SB-MW-02-04	EPA 6010	JLD	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	71	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40163966003	PV-FD-01	EPA 6010	JLD	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	71	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40163966004	PV-SB-MW-03-01	EPA 6010	JLD	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	71	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40163966005	PV-SB-MW-04-01	EPA 6010	JLD	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	71	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40163966006	PV-SB-MW-04-03	EPA 6010	JLD	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	SMT	71	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40163966007	PV-SB-MW-01-02	EPA 6010	JLD	1	PASI-G
		EPA 8270 by SIM	TPO	20	PASI-G
		EPA 8260	SMT	71	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40163966008	PV-SB-MW-01-03	EPA 6010	JLD	1	PASI-G
		EPA 8270 by SIM	TPO	20	PASI-G
		EPA 8260	SMT	71	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40163966009	PV-EB-01	EPA 6020	DS1	1	PASI-G
		EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	HNW	71	PASI-G
40163966010	PV-EB-02	EPA 6020	DS1	1	PASI-G
		EPA 8270 by HVI	TPO	20	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 36020 WAM

Pace Project No.: 40163966

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	HNW	71	PASI-G
40163966011	TRIP BLANK	EPA 8260	SMT	71	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 36020 WAM
Pace Project No.: 40163966

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40163966001	PV-SB-MW-02-02					
EPA 6010	Lead	4.8	mg/kg	1.4	01/30/18 19:56	
EPA 8270 by SIM	Benzo(a)anthracene	8.3J	ug/kg	11.8	02/01/18 14:58	
EPA 8270 by SIM	Benzo(a)pyrene	5.8J	ug/kg	9.3	02/01/18 14:58	
EPA 8270 by SIM	Benzo(b)fluoranthene	8.2J	ug/kg	10.5	02/01/18 14:58	
EPA 8270 by SIM	Benzo(g,h,i)perylene	3.5J	ug/kg	7.5	02/01/18 14:58	
EPA 8270 by SIM	Benzo(k)fluoranthene	4.1J	ug/kg	9.3	02/01/18 14:58	
EPA 8270 by SIM	Chrysene	7.6J	ug/kg	12.5	02/01/18 14:58	
EPA 8270 by SIM	Fluoranthene	14.7J	ug/kg	19.4	02/01/18 14:58	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	3.0J	ug/kg	8.2	02/01/18 14:58	
EPA 8270 by SIM	Pyrene	11.9J	ug/kg	16.7	02/01/18 14:58	
ASTM D2974-87	Percent Moisture	10.3	%	0.10	01/29/18 10:40	
40163966002	PV-SB-MW-02-04					
EPA 6010	Lead	6.0	mg/kg	3.0	01/31/18 11:05	
ASTM D2974-87	Percent Moisture	12.8	%	0.10	01/29/18 10:40	
40163966003	PV-FD-01					
EPA 6010	Lead	6.5	mg/kg	1.4	01/30/18 19:58	
ASTM D2974-87	Percent Moisture	9.5	%	0.10	01/29/18 10:40	
40163966004	PV-SB-MW-03-01					
EPA 6010	Lead	11.4	mg/kg	1.3	01/30/18 20:01	
EPA 8270 by SIM	Benzo(a)anthracene	14.8	ug/kg	12.4	02/02/18 16:50	
EPA 8270 by SIM	Benzo(a)pyrene	13.0	ug/kg	9.8	02/02/18 16:50	
EPA 8270 by SIM	Benzo(b)fluoranthene	17.7	ug/kg	11.0	02/02/18 16:50	
EPA 8270 by SIM	Benzo(g,h,i)perylene	4.2J	ug/kg	7.9	02/02/18 16:50	
EPA 8270 by SIM	Benzo(k)fluoranthene	8.5J	ug/kg	9.8	02/02/18 16:50	
EPA 8270 by SIM	Chrysene	16.1	ug/kg	13.1	02/02/18 16:50	
EPA 8270 by SIM	Fluoranthene	31.7	ug/kg	20.4	02/02/18 16:50	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	4.7J	ug/kg	8.6	02/02/18 16:50	
EPA 8270 by SIM	Phenanthrene	22.3J	ug/kg	45.5	02/02/18 16:50	
EPA 8270 by SIM	Pyrene	27.5	ug/kg	17.6	02/02/18 16:50	
EPA 8260	Naphthalene	457	ug/kg	293	01/29/18 15:37	
ASTM D2974-87	Percent Moisture	14.7	%	0.10	01/29/18 10:40	
40163966005	PV-SB-MW-04-01					
EPA 6010	Lead	2.4	mg/kg	1.4	01/30/18 20:03	
EPA 8270 by SIM	Benzo(b)fluoranthene	4.3J	ug/kg	10.9	02/02/18 17:07	
EPA 8270 by SIM	Fluoranthene	6.5J	ug/kg	20.1	02/02/18 17:07	
EPA 8270 by SIM	Pyrene	5.5J	ug/kg	17.3	02/02/18 17:07	
EPA 8260	Naphthalene	118J	ug/kg	289	01/29/18 16:00	
ASTM D2974-87	Percent Moisture	13.4	%	0.10	01/29/18 10:40	
40163966006	PV-SB-MW-04-03					
EPA 6010	Lead	10.5	mg/kg	8.1	01/31/18 11:19	
ASTM D2974-87	Percent Moisture	19.9	%	0.10	01/29/18 10:40	
40163966007	PV-SB-MW-01-02					
EPA 6010	Lead	15.2	mg/kg	1.4	01/30/18 20:08	
EPA 8270 by SIM	Acenaphthylene	4.8J	ug/kg	13.3	02/06/18 18:35	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 36020 WAM
Pace Project No.: 40163966

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40163966007	PV-SB-MW-01-02					
EPA 8270 by SIM	Benzo(a)anthracene	23.6	ug/kg	12.8	02/06/18 18:35	
EPA 8270 by SIM	Benzo(a)pyrene	25.9	ug/kg	10.1	02/06/18 18:35	
EPA 8270 by SIM	Benzo(b)fluoranthene	36.6	ug/kg	11.4	02/06/18 18:35	
EPA 8270 by SIM	Benzo(g,h,i)perylene	19.5	ug/kg	8.2	02/06/18 18:35	
EPA 8270 by SIM	Benzo(k)fluoranthene	15.2	ug/kg	10.1	02/06/18 18:35	
EPA 8270 by SIM	Chrysene	30.8	ug/kg	13.6	02/06/18 18:35	
EPA 8270 by SIM	Dibenz(a,h)anthracene	5.0J	ug/kg	9.0	02/06/18 18:35	
EPA 8270 by SIM	Fluoranthene	37.8	ug/kg	21.1	02/06/18 18:35	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	15.4	ug/kg	8.9	02/06/18 18:35	
EPA 8270 by SIM	1-Methylnaphthalene	5.3J	ug/kg	16.2	02/06/18 18:35	
EPA 8270 by SIM	2-Methylnaphthalene	7.2J	ug/kg	20.2	02/06/18 18:35	
EPA 8270 by SIM	Phenanthrene	20.4J	ug/kg	46.9	02/06/18 18:35	
EPA 8270 by SIM	Pyrene	35.4	ug/kg	18.1	02/06/18 18:35	
ASTM D2974-87	Percent Moisture	17.5	%	0.10	01/29/18 10:40	
40163966008	PV-SB-MW-01-03					
EPA 6010	Lead	5.1	mg/kg	1.5	01/30/18 20:10	
ASTM D2974-87	Percent Moisture	13.2	%	0.10	01/29/18 10:40	
40163966009	PV-EB-01					
EPA 6020	Lead	0.52J	ug/L	1.0	02/09/18 20:20	B
EPA 8270 by HVI	Acenaphthylene	0.011J	ug/L	0.025	01/30/18 16:25	
EPA 8270 by HVI	Anthracene	0.012J	ug/L	0.052	01/30/18 16:25	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.0096J	ug/L	0.029	01/30/18 16:25	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.0068J	ug/L	0.034	01/30/18 16:25	
EPA 8270 by HVI	Chrysene	0.018J	ug/L	0.065	01/30/18 16:25	
EPA 8270 by HVI	Fluoranthene	0.045J	ug/L	0.053	01/30/18 16:25	
EPA 8270 by HVI	Fluorene	0.0085J	ug/L	0.040	01/30/18 16:25	
EPA 8270 by HVI	1-Methylnaphthalene	0.0064J	ug/L	0.030	01/30/18 16:25	
EPA 8270 by HVI	2-Methylnaphthalene	0.0087J	ug/L	0.024	01/30/18 16:25	
EPA 8270 by HVI	Phenanthrene	0.070	ug/L	0.069	01/30/18 16:25	
EPA 8270 by HVI	Pyrene	0.031J	ug/L	0.038	01/30/18 16:25	B
40163966010	PV-EB-02					
EPA 6020	Lead	2.3	ug/L	1.0	02/09/18 20:27	B
EPA 8270 by HVI	Acenaphthene	0.023J	ug/L	0.030	01/30/18 16:44	
EPA 8270 by HVI	Acenaphthylene	0.030	ug/L	0.025	01/30/18 16:44	
EPA 8270 by HVI	Anthracene	0.12	ug/L	0.052	01/30/18 16:44	
EPA 8270 by HVI	Benzo(a)anthracene	0.087	ug/L	0.038	01/30/18 16:44	
EPA 8270 by HVI	Benzo(a)pyrene	0.083	ug/L	0.053	01/30/18 16:44	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.12	ug/L	0.029	01/30/18 16:44	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.080	ug/L	0.034	01/30/18 16:44	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.066	ug/L	0.038	01/30/18 16:44	
EPA 8270 by HVI	Chrysene	0.22	ug/L	0.065	01/30/18 16:44	
EPA 8270 by HVI	Dibenz(a,h)anthracene	0.020J	ug/L	0.050	01/30/18 16:44	
EPA 8270 by HVI	Fluoranthene	0.52	ug/L	0.053	01/30/18 16:44	
EPA 8270 by HVI	Fluorene	0.059	ug/L	0.040	01/30/18 16:44	
EPA 8270 by HVI	Indeno(1,2,3-cd)pyrene	0.064J	ug/L	0.088	01/30/18 16:44	
EPA 8270 by HVI	1-Methylnaphthalene	0.015J	ug/L	0.030	01/30/18 16:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 36020 WAM

Pace Project No.: 40163966

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40163966010	PV-EB-02					
EPA 8270 by HVI	2-Methylnaphthalene	0.022J	ug/L	0.024	01/30/18 16:44	
EPA 8270 by HVI	Naphthalene	0.044J	ug/L	0.092	01/30/18 16:44	
EPA 8270 by HVI	Phenanthrene	0.55	ug/L	0.069	01/30/18 16:44	
EPA 8270 by HVI	Pyrene	0.52	ug/L	0.038	01/30/18 16:44	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-02-02 **Lab ID: 40163966001** Collected: 01/24/18 09:57 Received: 01/26/18 09:15 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
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	4.8	mg/kg	1.4	0.48	1	01/29/18 14:19	01/30/18 19:56	7439-92-1	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.3	ug/kg	14.4	4.3	1	01/31/18 08:40	02/01/18 14:58	83-32-9	
Acenaphthylene	<6.7	ug/kg	12.3	3.7	1	01/31/18 08:40	02/01/18 14:58	208-96-8	
Anthracene	<6.4	ug/kg	21.2	6.4	1	01/31/18 08:40	02/01/18 14:58	120-12-7	
Benzo(a)anthracene	8.3J	ug/kg	11.8	3.5	1	01/31/18 08:40	02/01/18 14:58	56-55-3	
Benzo(a)pyrene	5.8J	ug/kg	9.3	2.8	1	01/31/18 08:40	02/01/18 14:58	50-32-8	
Benzo(b)fluoranthene	8.2J	ug/kg	10.5	3.1	1	01/31/18 08:40	02/01/18 14:58	205-99-2	
Benzo(g,h,i)perylene	3.5J	ug/kg	7.5	2.3	1	01/31/18 08:40	02/01/18 14:58	191-24-2	
Benzo(k)fluoranthene	4.1J	ug/kg	9.3	2.8	1	01/31/18 08:40	02/01/18 14:58	207-08-9	
Chrysene	7.6J	ug/kg	12.5	3.8	1	01/31/18 08:40	02/01/18 14:58	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	8.3	2.5	1	01/31/18 08:40	02/01/18 14:58	53-70-3	
Fluoranthene	14.7J	ug/kg	19.4	5.8	1	01/31/18 08:40	02/01/18 14:58	206-44-0	
Fluorene	<4.6	ug/kg	15.4	4.6	1	01/31/18 08:40	02/01/18 14:58	86-73-7	
Indeno(1,2,3-cd)pyrene	3.0J	ug/kg	8.2	2.5	1	01/31/18 08:40	02/01/18 14:58	193-39-5	
1-Methylnaphthalene	<4.5	ug/kg	14.9	4.5	1	01/31/18 08:40	02/01/18 14:58	90-12-0	
2-Methylnaphthalene	<5.6	ug/kg	18.6	5.6	1	01/31/18 08:40	02/01/18 14:58	91-57-6	
Naphthalene	<9.4	ug/kg	31.3	9.4	1	01/31/18 08:40	02/01/18 14:58	91-20-3	
Phenanthrene	<13.0	ug/kg	43.3	13.0	1	01/31/18 08:40	02/01/18 14:58	85-01-8	
Pyrene	11.9J	ug/kg	16.7	5.0	1	01/31/18 08:40	02/01/18 14:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	23-106		1	01/31/18 08:40	02/01/18 14:58	321-60-8	
Terphenyl-d14 (S)	66	%	29-106		1	01/31/18 08:40	02/01/18 14:58	1718-51-0	
8260 MSV Med Level Full List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	01/29/18 08:15	01/30/18 10:35	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	01/29/18 08:15	01/30/18 10:35	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	142-28-9	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-02-02 Lab ID: 40163966001 Collected: 01/24/18 09:57 Received: 01/26/18 09:15 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 Full List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	594-20-7	W
2-Butanone (MEK)	<107	ug/kg	250	107	1	01/29/18 08:15	01/30/18 10:35	78-93-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	95-49-8	W
2-Hexanone	<52.0	ug/kg	250	52.0	1	01/29/18 08:15	01/30/18 10:35	591-78-6	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	106-43-4	W
4-Methyl-2-pentanone (MIBK)	<41.1	ug/kg	250	41.1	1	01/29/18 08:15	01/30/18 10:35	108-10-1	W
Acetone	<77.8	ug/kg	250	77.8	1	01/29/18 08:15	01/30/18 10:35	67-64-1	W
Benzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	01/29/18 08:15	01/30/18 10:35	74-83-9	W
Carbon disulfide	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	75-15-0	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	01/29/18 08:15	01/30/18 10:35	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	01/29/18 08:15	01/30/18 10:35	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	01/29/18 08:15	01/30/18 10:35	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	127-18-4	W
Tetrahydrofuran	<110	ug/kg	250	110	1	01/29/18 08:15	01/30/18 10:35	109-99-9	W
Toluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	75-69-4	W
Vinyl acetate	<97.1	ug/kg	250	97.1	1	01/29/18 08:15	01/30/18 10:35	108-05-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	01/29/18 08:15	01/30/18 10:35	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	99-87-6	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-02-02 **Lab ID: 40163966001** Collected: 01/24/18 09:57 Received: 01/26/18 09:15 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 Full List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:35	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	85	%	68-130		1	01/29/18 08:15	01/30/18 10:35	1868-53-7	
Toluene-d8 (S)	89	%	68-149		1	01/29/18 08:15	01/30/18 10:35	2037-26-5	
4-Bromofluorobenzene (S)	86	%	58-141		1	01/29/18 08:15	01/30/18 10:35	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.3	%	0.10	0.10	1		01/29/18 10:40		

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-02-04 **Lab ID: 40163966002** Collected: 01/24/18 10:10 Received: 01/26/18 09:15 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
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	6.0	mg/kg	3.0	0.99	2	01/29/18 14:19	01/31/18 11:05	7439-92-1	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.5	ug/kg	14.8	4.5	1	02/02/18 08:44	02/02/18 11:55	83-32-9	
Acenaphthylene	<3.8	ug/kg	12.6	3.8	1	02/02/18 08:44	02/02/18 11:55	208-96-8	
Anthracene	<6.6	ug/kg	21.8	6.6	1	02/02/18 08:44	02/02/18 11:55	120-12-7	
Benzo(a)anthracene	<3.6	ug/kg	12.2	3.6	1	02/02/18 08:44	02/02/18 11:55	56-55-3	
Benzo(a)pyrene	<2.9	ug/kg	9.6	2.9	1	02/02/18 08:44	02/02/18 11:55	50-32-8	
Benzo(b)fluoranthene	<3.2	ug/kg	10.8	3.2	1	02/02/18 08:44	02/02/18 11:55	205-99-2	
Benzo(g,h,i)perylene	<2.3	ug/kg	7.8	2.3	1	02/02/18 08:44	02/02/18 11:55	191-24-2	
Benzo(k)fluoranthene	<2.9	ug/kg	9.6	2.9	1	02/02/18 08:44	02/02/18 11:55	207-08-9	
Chrysene	<3.9	ug/kg	12.8	3.9	1	02/02/18 08:44	02/02/18 11:55	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	8.5	2.6	1	02/02/18 08:44	02/02/18 11:55	53-70-3	
Fluoranthene	<6.0	ug/kg	20.0	6.0	1	02/02/18 08:44	02/02/18 11:55	206-44-0	
Fluorene	<4.7	ug/kg	15.8	4.7	1	02/02/18 08:44	02/02/18 11:55	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.5	ug/kg	8.4	2.5	1	02/02/18 08:44	02/02/18 11:55	193-39-5	
1-Methylnaphthalene	<4.6	ug/kg	15.4	4.6	1	02/02/18 08:44	02/02/18 11:55	90-12-0	
2-Methylnaphthalene	<5.7	ug/kg	19.2	5.7	1	02/02/18 08:44	02/02/18 11:55	91-57-6	
Naphthalene	<9.7	ug/kg	32.2	9.7	1	02/02/18 08:44	02/02/18 11:55	91-20-3	
Phenanthrene	<13.4	ug/kg	44.5	13.4	1	02/02/18 08:44	02/02/18 11:55	85-01-8	
Pyrene	<5.2	ug/kg	17.2	5.2	1	02/02/18 08:44	02/02/18 11:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	23-106		1	02/02/18 08:44	02/02/18 11:55	321-60-8	
Terphenyl-d14 (S)	75	%	29-106		1	02/02/18 08:44	02/02/18 11:55	1718-51-0	
8260 MSV Med Level Full List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	01/29/18 08:15	01/29/18 14:50	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	01/29/18 08:15	01/29/18 14:50	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	142-28-9	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-02-04 **Lab ID: 40163966002** Collected: 01/24/18 10:10 Received: 01/26/18 09:15 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 Full List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	594-20-7	W
2-Butanone (MEK)	<107	ug/kg	250	107	1	01/29/18 08:15	01/29/18 14:50	78-93-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	95-49-8	W
2-Hexanone	<52.0	ug/kg	250	52.0	1	01/29/18 08:15	01/29/18 14:50	591-78-6	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	106-43-4	W
4-Methyl-2-pentanone (MIBK)	<41.1	ug/kg	250	41.1	1	01/29/18 08:15	01/29/18 14:50	108-10-1	W
Acetone	<77.8	ug/kg	250	77.8	1	01/29/18 08:15	01/29/18 14:50	67-64-1	W
Benzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	01/29/18 08:15	01/29/18 14:50	74-83-9	W
Carbon disulfide	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	75-15-0	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	01/29/18 08:15	01/29/18 14:50	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	01/29/18 08:15	01/29/18 14:50	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	01/29/18 08:15	01/29/18 14:50	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	127-18-4	W
Tetrahydrofuran	<110	ug/kg	250	110	1	01/29/18 08:15	01/29/18 14:50	109-99-9	W
Toluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	75-69-4	W
Vinyl acetate	<97.1	ug/kg	250	97.1	1	01/29/18 08:15	01/29/18 14:50	108-05-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	01/29/18 08:15	01/29/18 14:50	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	99-87-6	W

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-02-04 **Lab ID: 40163966002** Collected: 01/24/18 10:10 Received: 01/26/18 09:15 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 Full List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 14:50	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	68-130		1	01/29/18 08:15	01/29/18 14:50	1868-53-7	
Toluene-d8 (S)	98	%	68-149		1	01/29/18 08:15	01/29/18 14:50	2037-26-5	
4-Bromofluorobenzene (S)	96	%	58-141		1	01/29/18 08:15	01/29/18 14:50	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	12.8	%	0.10	0.10	1		01/29/18 10:40		

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-FD-01 **Lab ID: 40163966003** Collected: 01/24/18 10:03 Received: 01/26/18 09:15 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
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	6.5	mg/kg	1.4	0.47	1	01/29/18 14:19	01/30/18 19:58	7439-92-1	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.3	ug/kg	14.2	4.3	1	02/02/18 08:44	02/02/18 16:32	83-32-9	
Acenaphthylene	<6.3	ug/kg	12.1	3.6	1	02/02/18 08:44	02/02/18 16:32	208-96-8	
Anthracene	<6.3	ug/kg	21.0	6.3	1	02/02/18 08:44	02/02/18 16:32	120-12-7	
Benzo(a)anthracene	<3.5	ug/kg	11.7	3.5	1	02/02/18 08:44	02/02/18 16:32	56-55-3	
Benzo(a)pyrene	<2.8	ug/kg	9.2	2.8	1	02/02/18 08:44	02/02/18 16:32	50-32-8	
Benzo(b)fluoranthene	<3.1	ug/kg	10.4	3.1	1	02/02/18 08:44	02/02/18 16:32	205-99-2	
Benzo(g,h,i)perylene	<2.2	ug/kg	7.5	2.2	1	02/02/18 08:44	02/02/18 16:32	191-24-2	
Benzo(k)fluoranthene	<2.8	ug/kg	9.2	2.8	1	02/02/18 08:44	02/02/18 16:32	207-08-9	
Chrysene	<3.7	ug/kg	12.4	3.7	1	02/02/18 08:44	02/02/18 16:32	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	8.2	2.5	1	02/02/18 08:44	02/02/18 16:32	53-70-3	
Fluoranthene	<5.7	ug/kg	19.2	5.7	1	02/02/18 08:44	02/02/18 16:32	206-44-0	
Fluorene	<4.6	ug/kg	15.2	4.6	1	02/02/18 08:44	02/02/18 16:32	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.4	ug/kg	8.1	2.4	1	02/02/18 08:44	02/02/18 16:32	193-39-5	
1-Methylnaphthalene	<4.4	ug/kg	14.8	4.4	1	02/02/18 08:44	02/02/18 16:32	90-12-0	
2-Methylnaphthalene	<5.5	ug/kg	18.4	5.5	1	02/02/18 08:44	02/02/18 16:32	91-57-6	
Naphthalene	<9.3	ug/kg	31.0	9.3	1	02/02/18 08:44	02/02/18 16:32	91-20-3	
Phenanthrene	<12.9	ug/kg	42.8	12.9	1	02/02/18 08:44	02/02/18 16:32	85-01-8	
Pyrene	<5.0	ug/kg	16.6	5.0	1	02/02/18 08:44	02/02/18 16:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	23-106		1	02/02/18 08:44	02/02/18 16:32	321-60-8	
Terphenyl-d14 (S)	65	%	29-106		1	02/02/18 08:44	02/02/18 16:32	1718-51-0	
8260 MSV Med Level Full List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	01/29/18 08:15	01/29/18 15:13	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	01/29/18 08:15	01/29/18 15:13	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	142-28-9	W

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-FD-01 **Lab ID: 40163966003** Collected: 01/24/18 10:03 Received: 01/26/18 09:15 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 Full List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	594-20-7	W
2-Butanone (MEK)	<107	ug/kg	250	107	1	01/29/18 08:15	01/29/18 15:13	78-93-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	95-49-8	W
2-Hexanone	<52.0	ug/kg	250	52.0	1	01/29/18 08:15	01/29/18 15:13	591-78-6	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	106-43-4	W
4-Methyl-2-pentanone (MIBK)	<41.1	ug/kg	250	41.1	1	01/29/18 08:15	01/29/18 15:13	108-10-1	W
Acetone	<77.8	ug/kg	250	77.8	1	01/29/18 08:15	01/29/18 15:13	67-64-1	W
Benzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	01/29/18 08:15	01/29/18 15:13	74-83-9	W
Carbon disulfide	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	75-15-0	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	01/29/18 08:15	01/29/18 15:13	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	01/29/18 08:15	01/29/18 15:13	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	01/29/18 08:15	01/29/18 15:13	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	127-18-4	W
Tetrahydrofuran	<110	ug/kg	250	110	1	01/29/18 08:15	01/29/18 15:13	109-99-9	W
Toluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	75-69-4	W
Vinyl acetate	<97.1	ug/kg	250	97.1	1	01/29/18 08:15	01/29/18 15:13	108-05-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	01/29/18 08:15	01/29/18 15:13	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	99-87-6	W

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-FD-01 **Lab ID: 40163966003** Collected: 01/24/18 10:03 Received: 01/26/18 09:15 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 Full List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:13	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	89	%	68-130		1	01/29/18 08:15	01/29/18 15:13	1868-53-7	
Toluene-d8 (S)	90	%	68-149		1	01/29/18 08:15	01/29/18 15:13	2037-26-5	
4-Bromofluorobenzene (S)	86	%	58-141		1	01/29/18 08:15	01/29/18 15:13	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	9.5	%	0.10	0.10	1		01/29/18 10:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-03-01 Lab ID: 40163966004 Collected: 01/24/18 09:17 Received: 01/26/18 09:15 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
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	11.4	mg/kg	1.3	0.44	1	01/29/18 14:19	01/30/18 20:01	7439-92-1	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.6	ug/kg	15.1	4.6	1	02/02/18 08:44	02/02/18 16:50	83-32-9	
Acenaphthylene	<6.7	ug/kg	12.9	3.9	1	02/02/18 08:44	02/02/18 16:50	208-96-8	
Anthracene	<6.7	ug/kg	22.3	6.7	1	02/02/18 08:44	02/02/18 16:50	120-12-7	
Benzo(a)anthracene	14.8	ug/kg	12.4	3.7	1	02/02/18 08:44	02/02/18 16:50	56-55-3	
Benzo(a)pyrene	13.0	ug/kg	9.8	2.9	1	02/02/18 08:44	02/02/18 16:50	50-32-8	
Benzo(b)fluoranthene	17.7	ug/kg	11.0	3.3	1	02/02/18 08:44	02/02/18 16:50	205-99-2	
Benzo(g,h,i)perylene	4.2J	ug/kg	7.9	2.4	1	02/02/18 08:44	02/02/18 16:50	191-24-2	
Benzo(k)fluoranthene	8.5J	ug/kg	9.8	2.9	1	02/02/18 08:44	02/02/18 16:50	207-08-9	
Chrysene	16.1	ug/kg	13.1	4.0	1	02/02/18 08:44	02/02/18 16:50	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	8.7	2.6	1	02/02/18 08:44	02/02/18 16:50	53-70-3	
Fluoranthene	31.7	ug/kg	20.4	6.1	1	02/02/18 08:44	02/02/18 16:50	206-44-0	
Fluorene	<4.9	ug/kg	16.2	4.9	1	02/02/18 08:44	02/02/18 16:50	86-73-7	
Indeno(1,2,3-cd)pyrene	4.7J	ug/kg	8.6	2.6	1	02/02/18 08:44	02/02/18 16:50	193-39-5	
1-Methylnaphthalene	<4.7	ug/kg	15.7	4.7	1	02/02/18 08:44	02/02/18 16:50	90-12-0	
2-Methylnaphthalene	<5.9	ug/kg	19.6	5.9	1	02/02/18 08:44	02/02/18 16:50	91-57-6	
Naphthalene	<9.9	ug/kg	33.0	9.9	1	02/02/18 08:44	02/02/18 16:50	91-20-3	
Phenanthrene	22.3J	ug/kg	45.5	13.7	1	02/02/18 08:44	02/02/18 16:50	85-01-8	
Pyrene	27.5	ug/kg	17.6	5.3	1	02/02/18 08:44	02/02/18 16:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	23-106		1	02/02/18 08:44	02/02/18 16:50	321-60-8	
Terphenyl-d14 (S)	73	%	29-106		1	02/02/18 08:44	02/02/18 16:50	1718-51-0	
8260 MSV Med Level Full List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	01/29/18 08:15	01/29/18 15:37	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	01/29/18 08:15	01/29/18 15:37	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	142-28-9	W

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ANALYTICAL RESULTS

Project: 36020 WAM
Pace Project No.: 40163966

Sample: PV-SB-MW-03-01 **Lab ID: 40163966004** Collected: 01/24/18 09:17 Received: 01/26/18 09:15 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 Full List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	594-20-7	W
2-Butanone (MEK)	<107	ug/kg	250	107	1	01/29/18 08:15	01/29/18 15:37	78-93-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	95-49-8	W
2-Hexanone	<52.0	ug/kg	250	52.0	1	01/29/18 08:15	01/29/18 15:37	591-78-6	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	106-43-4	W
4-Methyl-2-pentanone (MIBK)	<41.1	ug/kg	250	41.1	1	01/29/18 08:15	01/29/18 15:37	108-10-1	W
Acetone	<77.8	ug/kg	250	77.8	1	01/29/18 08:15	01/29/18 15:37	67-64-1	W
Benzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	01/29/18 08:15	01/29/18 15:37	74-83-9	W
Carbon disulfide	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	75-15-0	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	01/29/18 08:15	01/29/18 15:37	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	01/29/18 08:15	01/29/18 15:37	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	75-09-2	W
Naphthalene	457	ug/kg	293	47.0	1	01/29/18 08:15	01/29/18 15:37	91-20-3	
Styrene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	127-18-4	W
Tetrahydrofuran	<110	ug/kg	250	110	1	01/29/18 08:15	01/29/18 15:37	109-99-9	W
Toluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	75-69-4	W
Vinyl acetate	<97.1	ug/kg	250	97.1	1	01/29/18 08:15	01/29/18 15:37	108-05-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	01/29/18 08:15	01/29/18 15:37	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	99-87-6	W

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-03-01 **Lab ID: 40163966004** Collected: 01/24/18 09:17 Received: 01/26/18 09:15 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 Full List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 15:37	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	68-130		1	01/29/18 08:15	01/29/18 15:37	1868-53-7	
Toluene-d8 (S)	96	%	68-149		1	01/29/18 08:15	01/29/18 15:37	2037-26-5	
4-Bromofluorobenzene (S)	91	%	58-141		1	01/29/18 08:15	01/29/18 15:37	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.7	%	0.10	0.10	1		01/29/18 10:40		

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-04-01 **Lab ID: 40163966005** Collected: 01/24/18 11:25 Received: 01/26/18 09:15 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	2.4	mg/kg	1.4	0.48	1	01/29/18 14:19	01/30/18 20:03	7439-92-1	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.5	ug/kg	14.9	4.5	1	02/02/18 08:44	02/02/18 17:07	83-32-9	
Acenaphthylene	<3.8	ug/kg	12.7	3.8	1	02/02/18 08:44	02/02/18 17:07	208-96-8	
Anthracene	<6.6	ug/kg	22.0	6.6	1	02/02/18 08:44	02/02/18 17:07	120-12-7	
Benzo(a)anthracene	<3.7	ug/kg	12.2	3.7	1	02/02/18 08:44	02/02/18 17:07	56-55-3	
Benzo(a)pyrene	<2.9	ug/kg	9.7	2.9	1	02/02/18 08:44	02/02/18 17:07	50-32-8	
Benzo(b)fluoranthene	4.3J	ug/kg	10.9	3.3	1	02/02/18 08:44	02/02/18 17:07	205-99-2	
Benzo(g,h,i)perylene	<2.3	ug/kg	7.8	2.3	1	02/02/18 08:44	02/02/18 17:07	191-24-2	
Benzo(k)fluoranthene	<2.9	ug/kg	9.7	2.9	1	02/02/18 08:44	02/02/18 17:07	207-08-9	
Chrysene	<3.9	ug/kg	12.9	3.9	1	02/02/18 08:44	02/02/18 17:07	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	8.6	2.6	1	02/02/18 08:44	02/02/18 17:07	53-70-3	
Fluoranthene	6.5J	ug/kg	20.1	6.0	1	02/02/18 08:44	02/02/18 17:07	206-44-0	
Fluorene	<4.8	ug/kg	15.9	4.8	1	02/02/18 08:44	02/02/18 17:07	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.5	ug/kg	8.5	2.5	1	02/02/18 08:44	02/02/18 17:07	193-39-5	
1-Methylnaphthalene	<4.6	ug/kg	15.5	4.6	1	02/02/18 08:44	02/02/18 17:07	90-12-0	
2-Methylnaphthalene	<5.8	ug/kg	19.3	5.8	1	02/02/18 08:44	02/02/18 17:07	91-57-6	
Naphthalene	<9.7	ug/kg	32.5	9.7	1	02/02/18 08:44	02/02/18 17:07	91-20-3	
Phenanthrene	<13.5	ug/kg	44.8	13.5	1	02/02/18 08:44	02/02/18 17:07	85-01-8	
Pyrene	5.5J	ug/kg	17.3	5.2	1	02/02/18 08:44	02/02/18 17:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	23-106		1	02/02/18 08:44	02/02/18 17:07	321-60-8	
Terphenyl-d14 (S)	65	%	29-106		1	02/02/18 08:44	02/02/18 17:07	1718-51-0	
8260 MSV Med Level Full List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	01/29/18 08:15	01/29/18 16:00	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	01/29/18 08:15	01/29/18 16:00	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	142-28-9	W

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-04-01 **Lab ID: 40163966005** Collected: 01/24/18 11:25 Received: 01/26/18 09:15 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 Full List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:00	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	79	%	68-130		1	01/29/18 08:15	01/29/18 16:00	1868-53-7	
Toluene-d8 (S)	87	%	68-149		1	01/29/18 08:15	01/29/18 16:00	2037-26-5	
4-Bromofluorobenzene (S)	83	%	58-141		1	01/29/18 08:15	01/29/18 16:00	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.4	%	0.10	0.10	1		01/29/18 10:40		

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-04-03 **Lab ID: 40163966006** Collected: 01/24/18 11:31 Received: 01/26/18 09:15 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 Full List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:24	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:24	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:24	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:24	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	91	%	68-130		1	01/29/18 08:15	01/29/18 16:24	1868-53-7	
Toluene-d8 (S)	97	%	68-149		1	01/29/18 08:15	01/29/18 16:24	2037-26-5	
4-Bromofluorobenzene (S)	94	%	58-141		1	01/29/18 08:15	01/29/18 16:24	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	19.9	%	0.10	0.10	1		01/29/18 10:40		

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ANALYTICAL RESULTS

Project: 36020 WAM
Pace Project No.: 40163966

Sample: PV-SB-MW-01-02 **Lab ID:** 40163966007 Collected: 01/24/18 14:10 Received: 01/26/18 09:15 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
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	15.2	mg/kg	1.4	0.48	1	01/29/18 14:19	01/30/18 20:08	7439-92-1	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	<4.7	ug/kg	15.6	4.7	1	02/06/18 09:26	02/06/18 18:35	83-32-9	
Acenaphthylene	4.8J	ug/kg	13.3	4.0	1	02/06/18 09:26	02/06/18 18:35	208-96-8	
Anthracene	<6.9	ug/kg	23.0	6.9	1	02/06/18 09:26	02/06/18 18:35	120-12-7	
Benzo(a)anthracene	23.6	ug/kg	12.8	3.8	1	02/06/18 09:26	02/06/18 18:35	56-55-3	
Benzo(a)pyrene	25.9	ug/kg	10.1	3.0	1	02/06/18 09:26	02/06/18 18:35	50-32-8	
Benzo(b)fluoranthene	36.6	ug/kg	11.4	3.4	1	02/06/18 09:26	02/06/18 18:35	205-99-2	
Benzo(g,h,i)perylene	19.5	ug/kg	8.2	2.5	1	02/06/18 09:26	02/06/18 18:35	191-24-2	
Benzo(k)fluoranthene	15.2	ug/kg	10.1	3.0	1	02/06/18 09:26	02/06/18 18:35	207-08-9	
Chrysene	30.8	ug/kg	13.6	4.1	1	02/06/18 09:26	02/06/18 18:35	218-01-9	
Dibenz(a,h)anthracene	5.0J	ug/kg	9.0	2.7	1	02/06/18 09:26	02/06/18 18:35	53-70-3	
Fluoranthene	37.8	ug/kg	21.1	6.3	1	02/06/18 09:26	02/06/18 18:35	206-44-0	
Fluorene	<5.0	ug/kg	16.7	5.0	1	02/06/18 09:26	02/06/18 18:35	86-73-7	
Indeno(1,2,3-cd)pyrene	15.4	ug/kg	8.9	2.7	1	02/06/18 09:26	02/06/18 18:35	193-39-5	
1-Methylnaphthalene	5.3J	ug/kg	16.2	4.9	1	02/06/18 09:26	02/06/18 18:35	90-12-0	
2-Methylnaphthalene	7.2J	ug/kg	20.2	6.1	1	02/06/18 09:26	02/06/18 18:35	91-57-6	
Naphthalene	<10.2	ug/kg	34.0	10.2	1	02/06/18 09:26	02/06/18 18:35	91-20-3	
Phenanthrene	20.4J	ug/kg	46.9	14.1	1	02/06/18 09:26	02/06/18 18:35	85-01-8	
Pyrene	35.4	ug/kg	18.1	5.5	1	02/06/18 09:26	02/06/18 18:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	90	%	23-106		1	02/06/18 09:26	02/06/18 18:35	321-60-8	
Terphenyl-d14 (S)	86	%	29-106		1	02/06/18 09:26	02/06/18 18:35	1718-51-0	
8260 MSV Med Level Full List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	01/29/18 08:15	01/29/18 16:47	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	01/29/18 08:15	01/29/18 16:47	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	142-28-9	W

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-01-02 Lab ID: 40163966007 Collected: 01/24/18 14:10 Received: 01/26/18 09:15 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 Full List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	594-20-7	W
2-Butanone (MEK)	<107	ug/kg	250	107	1	01/29/18 08:15	01/29/18 16:47	78-93-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	95-49-8	W
2-Hexanone	<52.0	ug/kg	250	52.0	1	01/29/18 08:15	01/29/18 16:47	591-78-6	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	106-43-4	W
4-Methyl-2-pentanone (MIBK)	<41.1	ug/kg	250	41.1	1	01/29/18 08:15	01/29/18 16:47	108-10-1	W
Acetone	<77.8	ug/kg	250	77.8	1	01/29/18 08:15	01/29/18 16:47	67-64-1	W
Benzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	01/29/18 08:15	01/29/18 16:47	74-83-9	W
Carbon disulfide	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	75-15-0	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	01/29/18 08:15	01/29/18 16:47	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	01/29/18 08:15	01/29/18 16:47	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	01/29/18 08:15	01/29/18 16:47	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	127-18-4	W
Tetrahydrofuran	<110	ug/kg	250	110	1	01/29/18 08:15	01/29/18 16:47	109-99-9	W
Toluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	75-69-4	W
Vinyl acetate	<97.1	ug/kg	250	97.1	1	01/29/18 08:15	01/29/18 16:47	108-05-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	01/29/18 08:15	01/29/18 16:47	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	99-87-6	W

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-01-02 **Lab ID: 40163966007** Collected: 01/24/18 14:10 Received: 01/26/18 09:15 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 Full List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 16:47	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	92	%	68-130		1	01/29/18 08:15	01/29/18 16:47	1868-53-7	
Toluene-d8 (S)	95	%	68-149		1	01/29/18 08:15	01/29/18 16:47	2037-26-5	
4-Bromofluorobenzene (S)	92	%	58-141		1	01/29/18 08:15	01/29/18 16:47	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	17.5	%	0.10	0.10	1		01/29/18 10:40		

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ANALYTICAL RESULTS

Project: 36020 WAM
Pace Project No.: 40163966

Sample: PV-SB-MW-01-03 **Lab ID: 40163966008** Collected: 01/24/18 14:18 Received: 01/26/18 09:15 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
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	5.1	mg/kg	1.5	0.49	1	01/29/18 14:19	01/30/18 20:10	7439-92-1	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.5	ug/kg	14.9	4.5	1	02/06/18 09:26	02/06/18 16:17	83-32-9	
Acenaphthylene	<3.8	ug/kg	12.7	3.8	1	02/06/18 09:26	02/06/18 16:17	208-96-8	
Anthracene	<6.6	ug/kg	21.9	6.6	1	02/06/18 09:26	02/06/18 16:17	120-12-7	
Benzo(a)anthracene	<3.7	ug/kg	12.2	3.7	1	02/06/18 09:26	02/06/18 16:17	56-55-3	
Benzo(a)pyrene	<2.9	ug/kg	9.6	2.9	1	02/06/18 09:26	02/06/18 16:17	50-32-8	
Benzo(b)fluoranthene	<3.3	ug/kg	10.8	3.3	1	02/06/18 09:26	02/06/18 16:17	205-99-2	
Benzo(g,h,i)perylene	<2.3	ug/kg	7.8	2.3	1	02/06/18 09:26	02/06/18 16:17	191-24-2	
Benzo(k)fluoranthene	<2.9	ug/kg	9.6	2.9	1	02/06/18 09:26	02/06/18 16:17	207-08-9	
Chrysene	<3.9	ug/kg	12.9	3.9	1	02/06/18 09:26	02/06/18 16:17	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	8.6	2.6	1	02/06/18 09:26	02/06/18 16:17	53-70-3	
Fluoranthene	<6.0	ug/kg	20.1	6.0	1	02/06/18 09:26	02/06/18 16:17	206-44-0	
Fluorene	<4.8	ug/kg	15.9	4.8	1	02/06/18 09:26	02/06/18 16:17	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.5	ug/kg	8.4	2.5	1	02/06/18 09:26	02/06/18 16:17	193-39-5	
1-Methylnaphthalene	<4.6	ug/kg	15.4	4.6	1	02/06/18 09:26	02/06/18 16:17	90-12-0	
2-Methylnaphthalene	<5.8	ug/kg	19.2	5.8	1	02/06/18 09:26	02/06/18 16:17	91-57-6	
Naphthalene	<9.7	ug/kg	32.4	9.7	1	02/06/18 09:26	02/06/18 16:17	91-20-3	
Phenanthrene	<13.4	ug/kg	44.7	13.4	1	02/06/18 09:26	02/06/18 16:17	85-01-8	
Pyrene	<5.2	ug/kg	17.3	5.2	1	02/06/18 09:26	02/06/18 16:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	23-106		1	02/06/18 09:26	02/06/18 16:17	321-60-8	
Terphenyl-d14 (S)	84	%	29-106		1	02/06/18 09:26	02/06/18 16:17	1718-51-0	
8260 MSV Med Level Full List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	01/29/18 08:15	01/29/18 17:10	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	01/29/18 08:15	01/29/18 17:10	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	142-28-9	W

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ANALYTICAL RESULTS

Project: 36020 WAM
Pace Project No.: 40163966

Sample: PV-SB-MW-01-03 **Lab ID:** 40163966008 Collected: 01/24/18 14:18 Received: 01/26/18 09:15 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 Full List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	594-20-7	W
2-Butanone (MEK)	<107	ug/kg	250	107	1	01/29/18 08:15	01/29/18 17:10	78-93-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	95-49-8	W
2-Hexanone	<52.0	ug/kg	250	52.0	1	01/29/18 08:15	01/29/18 17:10	591-78-6	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	106-43-4	W
4-Methyl-2-pentanone (MIBK)	<41.1	ug/kg	250	41.1	1	01/29/18 08:15	01/29/18 17:10	108-10-1	W
Acetone	<77.8	ug/kg	250	77.8	1	01/29/18 08:15	01/29/18 17:10	67-64-1	W
Benzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	01/29/18 08:15	01/29/18 17:10	74-83-9	W
Carbon disulfide	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	75-15-0	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	01/29/18 08:15	01/29/18 17:10	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	01/29/18 08:15	01/29/18 17:10	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	01/29/18 08:15	01/29/18 17:10	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	127-18-4	W
Tetrahydrofuran	<110	ug/kg	250	110	1	01/29/18 08:15	01/29/18 17:10	109-99-9	W
Toluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	75-69-4	W
Vinyl acetate	<97.1	ug/kg	250	97.1	1	01/29/18 08:15	01/29/18 17:10	108-05-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	01/29/18 08:15	01/29/18 17:10	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	99-87-6	W

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-SB-MW-01-03 **Lab ID: 40163966008** Collected: 01/24/18 14:18 Received: 01/26/18 09:15 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 Full List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/29/18 17:10	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	68-130		1	01/29/18 08:15	01/29/18 17:10	1868-53-7	
Toluene-d8 (S)	96	%	68-149		1	01/29/18 08:15	01/29/18 17:10	2037-26-5	
4-Bromofluorobenzene (S)	94	%	58-141		1	01/29/18 08:15	01/29/18 17:10	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.2	%	0.10	0.10	1		01/29/18 10:40		

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-EB-01 **Lab ID:** 40163966009 Collected: 01/24/18 08:29 Received: 01/26/18 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Lead	0.52J	ug/L	1.0	0.20	1	02/07/18 10:10	02/09/18 20:20	7439-92-1	B
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0061	ug/L	0.030	0.0061	1	01/29/18 09:45	01/30/18 16:25	83-32-9	
Acenaphthylene	0.011J	ug/L	0.025	0.0050	1	01/29/18 09:45	01/30/18 16:25	208-96-8	
Anthracene	0.012J	ug/L	0.052	0.010	1	01/29/18 09:45	01/30/18 16:25	120-12-7	
Benzo(a)anthracene	<0.0076	ug/L	0.038	0.0076	1	01/29/18 09:45	01/30/18 16:25	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.053	0.011	1	01/29/18 09:45	01/30/18 16:25	50-32-8	
Benzo(b)fluoranthene	0.0096J	ug/L	0.029	0.0057	1	01/29/18 09:45	01/30/18 16:25	205-99-2	
Benzo(g,h,i)perylene	0.0068J	ug/L	0.034	0.0068	1	01/29/18 09:45	01/30/18 16:25	191-24-2	
Benzo(k)fluoranthene	<0.0076	ug/L	0.038	0.0076	1	01/29/18 09:45	01/30/18 16:25	207-08-9	
Chrysene	0.018J	ug/L	0.065	0.013	1	01/29/18 09:45	01/30/18 16:25	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.050	0.010	1	01/29/18 09:45	01/30/18 16:25	53-70-3	
Fluoranthene	0.045J	ug/L	0.053	0.011	1	01/29/18 09:45	01/30/18 16:25	206-44-0	
Fluorene	0.0085J	ug/L	0.040	0.0080	1	01/29/18 09:45	01/30/18 16:25	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.018	ug/L	0.088	0.018	1	01/29/18 09:45	01/30/18 16:25	193-39-5	
1-Methylnaphthalene	0.0064J	ug/L	0.030	0.0059	1	01/29/18 09:45	01/30/18 16:25	90-12-0	
2-Methylnaphthalene	0.0087J	ug/L	0.024	0.0049	1	01/29/18 09:45	01/30/18 16:25	91-57-6	
Naphthalene	<0.018	ug/L	0.092	0.018	1	01/29/18 09:45	01/30/18 16:25	91-20-3	
Phenanthrene	0.070	ug/L	0.069	0.014	1	01/29/18 09:45	01/30/18 16:25	85-01-8	
Pyrene	0.031J	ug/L	0.038	0.0076	1	01/29/18 09:45	01/30/18 16:25	129-00-0	B
Surrogates									
2-Fluorobiphenyl (S)	57	%	35-84		1	01/29/18 09:45	01/30/18 16:25	321-60-8	
Terphenyl-d14 (S)	68	%	10-129		1	01/29/18 09:45	01/30/18 16:25	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		01/29/18 13:51	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		01/29/18 13:51	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		01/29/18 13:51	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/29/18 13:51	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		01/29/18 13:51	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		01/29/18 13:51	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		01/29/18 13:51	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		01/29/18 13:51	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		01/29/18 13:51	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		01/29/18 13:51	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		01/29/18 13:51	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		01/29/18 13:51	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	106-46-7	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-EB-01 Lab ID: 40163966009 Collected: 01/24/18 08:29 Received: 01/26/18 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		01/29/18 13:51	594-20-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		01/29/18 13:51	78-93-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	95-49-8	
2-Hexanone	<1.1	ug/L	5.0	1.1	1		01/29/18 13:51	591-78-6	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		01/29/18 13:51	106-43-4	
4-Methyl-2-pentanone (MIBK)	<2.1	ug/L	5.0	2.1	1		01/29/18 13:51	108-10-1	
Acetone	<3.0	ug/L	20.0	3.0	1		01/29/18 13:51	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		01/29/18 13:51	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		01/29/18 13:51	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		01/29/18 13:51	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		01/29/18 13:51	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		01/29/18 13:51	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		01/29/18 13:51	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		01/29/18 13:51	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		01/29/18 13:51	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		01/29/18 13:51	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		01/29/18 13:51	98-82-8	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		01/29/18 13:51	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		01/29/18 13:51	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		01/29/18 13:51	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		01/29/18 13:51	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		01/29/18 13:51	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		01/29/18 13:51	75-69-4	
Vinyl acetate	<0.92	ug/L	5.0	0.92	1		01/29/18 13:51	108-05-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/29/18 13:51	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/29/18 13:51	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		01/29/18 13:51	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		01/29/18 13:51	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		01/29/18 13:51	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		01/29/18 13:51	98-06-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-EB-01 **Lab ID: 40163966009** Collected: 01/24/18 08:29 Received: 01/26/18 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/29/18 13:51	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		01/29/18 13:51	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	61-130		1		01/29/18 13:51	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		01/29/18 13:51	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		01/29/18 13:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-EB-02 **Lab ID: 40163966010** Collected: 01/24/18 08:38 Received: 01/26/18 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Lead	2.3	ug/L	1.0	0.20	1	02/07/18 10:10	02/09/18 20:27	7439-92-1	B
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.023J	ug/L	0.030	0.0061	1	01/29/18 09:45	01/30/18 16:44	83-32-9	
Acenaphthylene	0.030	ug/L	0.025	0.0050	1	01/29/18 09:45	01/30/18 16:44	208-96-8	
Anthracene	0.12	ug/L	0.052	0.010	1	01/29/18 09:45	01/30/18 16:44	120-12-7	
Benzo(a)anthracene	0.087	ug/L	0.038	0.0076	1	01/29/18 09:45	01/30/18 16:44	56-55-3	
Benzo(a)pyrene	0.083	ug/L	0.053	0.011	1	01/29/18 09:45	01/30/18 16:44	50-32-8	
Benzo(b)fluoranthene	0.12	ug/L	0.029	0.0057	1	01/29/18 09:45	01/30/18 16:44	205-99-2	
Benzo(g,h,i)perylene	0.080	ug/L	0.034	0.0068	1	01/29/18 09:45	01/30/18 16:44	191-24-2	
Benzo(k)fluoranthene	0.066	ug/L	0.038	0.0076	1	01/29/18 09:45	01/30/18 16:44	207-08-9	
Chrysene	0.22	ug/L	0.065	0.013	1	01/29/18 09:45	01/30/18 16:44	218-01-9	
Dibenz(a,h)anthracene	0.020J	ug/L	0.050	0.010	1	01/29/18 09:45	01/30/18 16:44	53-70-3	
Fluoranthene	0.52	ug/L	0.053	0.011	1	01/29/18 09:45	01/30/18 16:44	206-44-0	
Fluorene	0.059	ug/L	0.040	0.0080	1	01/29/18 09:45	01/30/18 16:44	86-73-7	
Indeno(1,2,3-cd)pyrene	0.064J	ug/L	0.088	0.018	1	01/29/18 09:45	01/30/18 16:44	193-39-5	
1-Methylnaphthalene	0.015J	ug/L	0.030	0.0059	1	01/29/18 09:45	01/30/18 16:44	90-12-0	
2-Methylnaphthalene	0.022J	ug/L	0.024	0.0049	1	01/29/18 09:45	01/30/18 16:44	91-57-6	
Naphthalene	0.044J	ug/L	0.092	0.018	1	01/29/18 09:45	01/30/18 16:44	91-20-3	
Phenanthrene	0.55	ug/L	0.069	0.014	1	01/29/18 09:45	01/30/18 16:44	85-01-8	
Pyrene	0.52	ug/L	0.038	0.0076	1	01/29/18 09:45	01/30/18 16:44	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	44	%	35-84		1	01/29/18 09:45	01/30/18 16:44	321-60-8	
Terphenyl-d14 (S)	54	%	10-129		1	01/29/18 09:45	01/30/18 16:44	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		01/29/18 14:13	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		01/29/18 14:13	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		01/29/18 14:13	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/29/18 14:13	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		01/29/18 14:13	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		01/29/18 14:13	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		01/29/18 14:13	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		01/29/18 14:13	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		01/29/18 14:13	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		01/29/18 14:13	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		01/29/18 14:13	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		01/29/18 14:13	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	106-46-7	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-EB-02 Lab ID: 40163966010 Collected: 01/24/18 08:38 Received: 01/26/18 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		01/29/18 14:13	594-20-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		01/29/18 14:13	78-93-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	95-49-8	
2-Hexanone	<1.1	ug/L	5.0	1.1	1		01/29/18 14:13	591-78-6	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		01/29/18 14:13	106-43-4	
4-Methyl-2-pentanone (MIBK)	<2.1	ug/L	5.0	2.1	1		01/29/18 14:13	108-10-1	
Acetone	<3.0	ug/L	20.0	3.0	1		01/29/18 14:13	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		01/29/18 14:13	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		01/29/18 14:13	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		01/29/18 14:13	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		01/29/18 14:13	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		01/29/18 14:13	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		01/29/18 14:13	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		01/29/18 14:13	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		01/29/18 14:13	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		01/29/18 14:13	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		01/29/18 14:13	98-82-8	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		01/29/18 14:13	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		01/29/18 14:13	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		01/29/18 14:13	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		01/29/18 14:13	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		01/29/18 14:13	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		01/29/18 14:13	75-69-4	
Vinyl acetate	<0.92	ug/L	5.0	0.92	1		01/29/18 14:13	108-05-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/29/18 14:13	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/29/18 14:13	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		01/29/18 14:13	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		01/29/18 14:13	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		01/29/18 14:13	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		01/29/18 14:13	98-06-6	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: PV-EB-02 **Lab ID: 40163966010** Collected: 01/24/18 08:38 Received: 01/26/18 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/29/18 14:13	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		01/29/18 14:13	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	61-130		1		01/29/18 14:13	460-00-4	
Dibromofluoromethane (S)	94	%	67-130		1		01/29/18 14:13	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		01/29/18 14:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40163966

Sample: TRIP BLANK **Lab ID: 40163966011** Collected: 01/24/18 00:00 Received: 01/26/18 09:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Full List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	01/29/18 08:15	01/30/18 10:00	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	127-18-4	W
Tetrahydrofuran	<110	ug/kg	250	110	1	01/29/18 08:15	01/30/18 10:00	109-99-9	W
Toluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	75-69-4	W
Vinyl acetate	<97.1	ug/kg	250	97.1	1	01/29/18 08:15	01/30/18 10:00	108-05-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	01/29/18 08:15	01/30/18 10:00	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	01/29/18 08:15	01/30/18 10:00	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	68-130		1	01/29/18 08:15	01/30/18 10:00	1868-53-7	
Toluene-d8 (S)	98	%	68-149		1	01/29/18 08:15	01/30/18 10:00	2037-26-5	
4-Bromofluorobenzene (S)	99	%	58-141		1	01/29/18 08:15	01/30/18 10:00	460-00-4	

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

QC Batch:	279990	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	40163966001, 40163966002, 40163966003, 40163966004, 40163966005, 40163966006, 40163966007, 40163966008		

METHOD BLANK:	1643200	Matrix:	Solid
Associated Lab Samples:	40163966001, 40163966002, 40163966003, 40163966004, 40163966005, 40163966006, 40163966007, 40163966008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.43	1.3	01/30/18 19:22	

LABORATORY CONTROL SAMPLE: 1643201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	48.0	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1643259 1643260

Parameter	Units	40163966002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	6.0	57	57	60.4	57.0	95	89	75-125	6	20	

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

QC Batch: 280706

Analysis Method: EPA 6020

QC Batch Method: EPA 3010

Analysis Description: 6020 MET

Associated Lab Samples: 40163966009, 40163966010

METHOD BLANK: 1646332

Matrix: Water

Associated Lab Samples: 40163966009, 40163966010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	0.65J	1.0	02/09/18 20:13	

LABORATORY CONTROL SAMPLE: 1646333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	510	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1646334 1646335

Parameter	Units	40164260001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Lead	ug/L	0.00062J mg/L	500	500	531	524	106	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: 36020 WAM
Pace Project No.: 40163966

QC Batch: 279995 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Full List
Associated Lab Samples: 40163966001, 40163966002, 40163966003, 40163966004, 40163966005, 40163966006, 40163966007, 40163966008, 40163966011

METHOD BLANK: 1643221 Matrix: Solid
Associated Lab Samples: 40163966001, 40163966002, 40163966003, 40163966004, 40163966005, 40163966006, 40163966007, 40163966008, 40163966011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	01/29/18 10:28	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	01/29/18 10:28	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	01/29/18 10:28	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	01/29/18 10:28	
1,1-Dichloroethane	ug/kg	<17.6	50.0	01/29/18 10:28	
1,1-Dichloroethene	ug/kg	<17.6	50.0	01/29/18 10:28	
1,1-Dichloropropene	ug/kg	<14.0	50.0	01/29/18 10:28	
1,2,3-Trichlorobenzene	ug/kg	33.0J	50.0	01/29/18 10:28	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	01/29/18 10:28	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	01/29/18 10:28	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	01/29/18 10:28	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	01/29/18 10:28	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	01/29/18 10:28	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	01/29/18 10:28	
1,2-Dichloroethane	ug/kg	<15.0	50.0	01/29/18 10:28	
1,2-Dichloropropane	ug/kg	<16.8	50.0	01/29/18 10:28	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	01/29/18 10:28	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	01/29/18 10:28	
1,3-Dichloropropane	ug/kg	<12.0	50.0	01/29/18 10:28	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	01/29/18 10:28	
2,2-Dichloropropane	ug/kg	<12.6	50.0	01/29/18 10:28	
2-Butanone (MEK)	ug/kg	<124	250	01/29/18 10:28	
2-Chlorotoluene	ug/kg	<15.8	50.0	01/29/18 10:28	
2-Hexanone	ug/kg	<52.0	250	01/29/18 10:28	
4-Chlorotoluene	ug/kg	<13.0	50.0	01/29/18 10:28	
4-Methyl-2-pentanone (MIBK)	ug/kg	<41.1	250	01/29/18 10:28	
Acetone	ug/kg	<98.6	250	01/29/18 10:28	
Benzene	ug/kg	<9.2	20.0	01/29/18 10:28	
Bromobenzene	ug/kg	<20.6	50.0	01/29/18 10:28	
Bromochloromethane	ug/kg	<21.4	50.0	01/29/18 10:28	
Bromodichloromethane	ug/kg	<9.8	50.0	01/29/18 10:28	
Bromoform	ug/kg	<19.8	50.0	01/29/18 10:28	
Bromomethane	ug/kg	<69.9	250	01/29/18 10:28	
Carbon disulfide	ug/kg	<11.1	50.0	01/29/18 10:28	
Carbon tetrachloride	ug/kg	<12.1	50.0	01/29/18 10:28	
Chlorobenzene	ug/kg	<14.8	50.0	01/29/18 10:28	
Chloroethane	ug/kg	<67.0	250	01/29/18 10:28	
Chloroform	ug/kg	<46.4	250	01/29/18 10:28	
Chloromethane	ug/kg	<20.4	50.0	01/29/18 10:28	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	01/29/18 10:28	

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

METHOD BLANK: 1643221

Matrix: Solid

Associated Lab Samples: 40163966001, 40163966002, 40163966003, 40163966004, 40163966005, 40163966006, 40163966007, 40163966008, 40163966011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	01/29/18 10:28	
Dibromochloromethane	ug/kg	<17.9	50.0	01/29/18 10:28	
Dibromomethane	ug/kg	<19.3	50.0	01/29/18 10:28	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	01/29/18 10:28	
Diisopropyl ether	ug/kg	<17.7	50.0	01/29/18 10:28	
Ethylbenzene	ug/kg	<12.4	50.0	01/29/18 10:28	
Hexachloro-1,3-butadiene	ug/kg	29.5J	50.0	01/29/18 10:28	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	01/29/18 10:28	
m&p-Xylene	ug/kg	<34.4	100	01/29/18 10:28	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	01/29/18 10:28	
Methylene Chloride	ug/kg	<16.2	50.0	01/29/18 10:28	
n-Butylbenzene	ug/kg	13.2J	50.0	01/29/18 10:28	
n-Propylbenzene	ug/kg	<11.6	50.0	01/29/18 10:28	
Naphthalene	ug/kg	<40.0	250	01/29/18 10:28	
o-Xylene	ug/kg	<14.0	50.0	01/29/18 10:28	
p-Isopropyltoluene	ug/kg	<12.0	50.0	01/29/18 10:28	
sec-Butylbenzene	ug/kg	<11.9	50.0	01/29/18 10:28	
Styrene	ug/kg	<9.0	50.0	01/29/18 10:28	
tert-Butylbenzene	ug/kg	<9.5	50.0	01/29/18 10:28	
Tetrachloroethene	ug/kg	<12.9	50.0	01/29/18 10:28	
Tetrahydrofuran	ug/kg	<110	250	01/29/18 10:28	
Toluene	ug/kg	<11.2	50.0	01/29/18 10:28	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	01/29/18 10:28	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	01/29/18 10:28	
Trichloroethene	ug/kg	<23.6	50.0	01/29/18 10:28	
Trichlorofluoromethane	ug/kg	<24.7	50.0	01/29/18 10:28	
Vinyl acetate	ug/kg	<97.1	250	01/29/18 10:28	
Vinyl chloride	ug/kg	<21.1	50.0	01/29/18 10:28	
4-Bromofluorobenzene (S)	%	88	58-141	01/29/18 10:28	
Dibromofluoromethane (S)	%	89	68-130	01/29/18 10:28	
Toluene-d8 (S)	%	92	68-149	01/29/18 10:28	

LABORATORY CONTROL SAMPLE: 1643222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	2500	2450	98	70-130	
1,1,1-Trichloroethane	ug/kg	2500	2480	99	61-122	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2410	96	73-130	
1,1,2-Trichloroethane	ug/kg	2500	2380	95	70-130	
1,1-Dichloroethane	ug/kg	2500	2350	94	63-124	
1,1-Dichloroethene	ug/kg	2500	2470	99	53-117	
1,1-Dichloropropene	ug/kg	2500	2490	100	70-130	
1,2,3-Trichlorobenzene	ug/kg	2500	2250	90	70-130	

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

LABORATORY CONTROL SAMPLE: 1643222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	2500	2500	100	74-130	
1,2,4-Trichlorobenzene	ug/kg	2500	2200	88	78-130	
1,2,4-Trimethylbenzene	ug/kg	2500	2410	96	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2230	89	49-140	
1,2-Dibromoethane (EDB)	ug/kg	2500	2360	94	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2350	94	70-130	
1,2-Dichloroethane	ug/kg	2500	2390	95	56-135	
1,2-Dichloropropane	ug/kg	2500	2370	95	77-122	
1,3,5-Trimethylbenzene	ug/kg	2500	2440	97	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2360	94	70-130	
1,3-Dichloropropane	ug/kg	2500	2380	95	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2180	87	70-130	
2,2-Dichloropropane	ug/kg	2500	2480	99	70-118	
2-Butanone (MEK)	ug/kg	2500	2300	92	50-150	
2-Chlorotoluene	ug/kg	2500	2510	101	70-130	
2-Hexanone	ug/kg	2500	2600	104	50-150	
4-Chlorotoluene	ug/kg	2500	2270	91	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	2470	99	50-150	
Acetone	ug/kg	2500	2300	92	50-150	
Benzene	ug/kg	2500	2300	92	66-130	
Bromobenzene	ug/kg	2500	2220	89	70-130	
Bromochloromethane	ug/kg	2500	2180	87	70-130	
Bromodichloromethane	ug/kg	2500	2350	94	62-135	
Bromoform	ug/kg	2500	2000	80	68-130	
Bromomethane	ug/kg	2500	2080	83	29-137	
Carbon disulfide	ug/kg	2500	2700	108	64-137	
Carbon tetrachloride	ug/kg	2500	2460	98	57-130	
Chlorobenzene	ug/kg	2500	2300	92	70-130	
Chloroethane	ug/kg	2500	2090	84	36-144	
Chloroform	ug/kg	2500	2370	95	69-115	
Chloromethane	ug/kg	2500	2070	83	32-126	
cis-1,2-Dichloroethene	ug/kg	2500	2260	90	65-130	
cis-1,3-Dichloropropene	ug/kg	2500	2220	89	70-130	
Dibromochloromethane	ug/kg	2500	2140	86	70-130	
Dibromomethane	ug/kg	2500	2310	93	70-130	
Dichlorodifluoromethane	ug/kg	2500	1760	70	10-99	
Diisopropyl ether	ug/kg	2500	2340	93	70-130	
Ethylbenzene	ug/kg	2500	2400	96	82-122	
Hexachloro-1,3-butadiene	ug/kg	2500	2310	93	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2440	98	70-130	
m&p-Xylene	ug/kg	5000	4770	95	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2510	100	63-134	
Methylene Chloride	ug/kg	2500	2180	87	56-123	
n-Butylbenzene	ug/kg	2500	2550	102	70-130	
n-Propylbenzene	ug/kg	2500	2470	99	70-130	
Naphthalene	ug/kg	2500	2080	83	70-130	
o-Xylene	ug/kg	2500	2410	97	70-130	

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

LABORATORY CONTROL SAMPLE: 1643222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/kg	2500	2390	96	70-130	
sec-Butylbenzene	ug/kg	2500	2440	98	70-130	
Styrene	ug/kg	2500	2440	97	70-130	
tert-Butylbenzene	ug/kg	2500	2440	97	70-130	
Tetrachloroethene	ug/kg	2500	2250	90	70-131	
Tetrahydrofuran	ug/kg	2500	2520	101	50-150	
Toluene	ug/kg	2500	2370	95	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2390	96	66-130	
trans-1,3-Dichloropropene	ug/kg	2500	2330	93	68-130	
Trichloroethene	ug/kg	2500	2250	90	70-130	
Trichlorofluoromethane	ug/kg	2500	2230	89	37-149	
Vinyl chloride	ug/kg	2500	2320	93	43-128	
4-Bromofluorobenzene (S)	%			90	58-141	
Dibromofluoromethane (S)	%			89	68-130	
Toluene-d8 (S)	%			89	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1643223 1643224

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40163966002 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/kg	<25.0	1420	1430	1550	1530	109	107	57-123	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1420	1430	1500	1440	105	100	73-135	4	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1420	1430	1480	1440	104	101	70-130	3	20	
1,1-Dichloroethane	ug/kg	<25.0	1420	1430	1460	1530	103	106	63-124	4	20	
1,1-Dichloroethene	ug/kg	<25.0	1420	1430	1470	1540	104	108	48-117	5	23	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1420	1430	1600	1500	113	105	78-145	6	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1420	1430	1490	1290	105	90	38-168	14	22	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1420	1430	1440	1380	101	96	70-130	4	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1420	1430	1540	1540	108	108	70-130	0	20	
1,2-Dichloroethane	ug/kg	<25.0	1420	1430	1490	1470	105	102	56-145	2	20	
1,2-Dichloropropane	ug/kg	<25.0	1420	1430	1510	1470	106	102	77-123	3	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1420	1430	1510	1490	106	104	70-130	1	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1420	1430	1490	1470	105	103	70-130	1	20	
Benzene	ug/kg	<25.0	1420	1430	1430	1480	100	103	65-130	3	20	
Bromodichloromethane	ug/kg	<25.0	1420	1430	1460	1480	103	104	59-141	1	20	
Bromoform	ug/kg	<25.0	1420	1430	1330	1250	93	87	59-141	6	20	
Bromomethane	ug/kg	<69.9	1420	1430	1080	1190	76	83	28-139	9	20	
Carbon disulfide	ug/kg	<25.0	1420	1430	1670	1680	117	117	60-137	1	20	
Carbon tetrachloride	ug/kg	<25.0	1420	1430	1570	1570	111	110	50-130	0	20	
Chlorobenzene	ug/kg	<25.0	1420	1430	1430	1450	101	101	70-130	1	20	
Chloroethane	ug/kg	<67.0	1420	1430	1280	1280	90	89	36-144	0	20	
Chloroform	ug/kg	<46.4	1420	1430	1440	1430	102	99	68-122	1	20	
Chloromethane	ug/kg	<25.0	1420	1430	1180	1190	83	83	30-126	1	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1420	1430	1360	1360	96	95	63-130	0	20	

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1643223		1643224		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40163966002 Result	MS Spike Conc.	MSD Spike Conc.									
cis-1,3-Dichloropropene	ug/kg	<25.0	1420	1430	1300	1300	92	91	70-130	0	20		
Dibromochloromethane	ug/kg	<25.0	1420	1430	1410	1340	99	94	66-136	5	20		
Dichlorodifluoromethane	ug/kg	<25.0	1420	1430	972	979	68	68	10-99	1	33		
Ethylbenzene	ug/kg	<25.0	1420	1430	1480	1470	104	103	80-122	0	20		
Isopropylbenzene (Cumene)	ug/kg	<25.0	1420	1430	1540	1530	108	106	70-130	1	20		
m&p-Xylene	ug/kg	<50.0	2840	2870	2990	2910	105	101	70-130	3	20		
Methyl-tert-butyl ether	ug/kg	<25.0	1420	1430	1510	1410	106	98	63-134	7	20		
Methylene Chloride	ug/kg	<25.0	1420	1430	1350	1380	94	95	56-127	2	20		
o-Xylene	ug/kg	<25.0	1420	1430	1480	1470	104	103	70-130	1	20		
Styrene	ug/kg	<25.0	1420	1430	1530	1510	107	105	70-130	1	20		
Tetrachloroethene	ug/kg	<25.0	1420	1430	1410	1420	99	99	70-131	1	20		
Toluene	ug/kg	<25.0	1420	1430	1480	1470	104	103	80-120	1	20		
trans-1,2-Dichloroethene	ug/kg	<25.0	1420	1430	1490	1440	105	100	60-130	3	20		
trans-1,3-Dichloropropene	ug/kg	<25.0	1420	1430	1440	1410	102	98	68-130	2	20		
Trichloroethene	ug/kg	<25.0	1420	1430	1380	1410	97	98	70-130	2	20		
Trichlorofluoromethane	ug/kg	<25.0	1420	1430	1330	1400	93	98	37-149	5	24		
Vinyl chloride	ug/kg	<25.0	1420	1430	1370	1390	96	97	39-128	2	20		
4-Bromofluorobenzene (S)	%						98	92	58-141				
Dibromofluoromethane (S)	%						95	91	68-130				
Toluene-d8 (S)	%						98	92	68-149				

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QUALITY CONTROL DATA

Project: 36020 WAM
Pace Project No.: 40163966

QC Batch: 279940 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40163966009, 40163966010

METHOD BLANK: 1643088 Matrix: Water
Associated Lab Samples: 40163966009, 40163966010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	01/29/18 10:34	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	01/29/18 10:34	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	01/29/18 10:34	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	01/29/18 10:34	
1,1-Dichloroethane	ug/L	<0.24	1.0	01/29/18 10:34	
1,1-Dichloroethene	ug/L	<0.41	1.0	01/29/18 10:34	
1,1-Dichloropropene	ug/L	<0.44	1.0	01/29/18 10:34	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	01/29/18 10:34	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	01/29/18 10:34	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	01/29/18 10:34	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	01/29/18 10:34	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	01/29/18 10:34	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	01/29/18 10:34	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	01/29/18 10:34	
1,2-Dichloroethane	ug/L	<0.17	1.0	01/29/18 10:34	
1,2-Dichloropropane	ug/L	<0.23	1.0	01/29/18 10:34	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	01/29/18 10:34	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	01/29/18 10:34	
1,3-Dichloropropane	ug/L	<0.50	1.0	01/29/18 10:34	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	01/29/18 10:34	
2,2-Dichloropropane	ug/L	<0.48	1.0	01/29/18 10:34	
2-Butanone (MEK)	ug/L	<3.0	20.0	01/29/18 10:34	
2-Chlorotoluene	ug/L	<0.50	1.0	01/29/18 10:34	
2-Hexanone	ug/L	<1.1	5.0	01/29/18 10:34	
4-Chlorotoluene	ug/L	<0.21	1.0	01/29/18 10:34	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.1	5.0	01/29/18 10:34	
Acetone	ug/L	<3.0	20.0	01/29/18 10:34	
Benzene	ug/L	<0.50	1.0	01/29/18 10:34	
Bromobenzene	ug/L	<0.23	1.0	01/29/18 10:34	
Bromochloromethane	ug/L	<0.34	1.0	01/29/18 10:34	
Bromodichloromethane	ug/L	<0.50	1.0	01/29/18 10:34	
Bromoform	ug/L	<0.50	1.0	01/29/18 10:34	
Bromomethane	ug/L	<2.4	5.0	01/29/18 10:34	
Carbon disulfide	ug/L	<0.61	5.0	01/29/18 10:34	
Carbon tetrachloride	ug/L	<0.50	1.0	01/29/18 10:34	
Chlorobenzene	ug/L	<0.50	1.0	01/29/18 10:34	
Chloroethane	ug/L	<0.37	1.0	01/29/18 10:34	
Chloroform	ug/L	<2.5	5.0	01/29/18 10:34	
Chloromethane	ug/L	<0.50	1.0	01/29/18 10:34	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	01/29/18 10:34	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	01/29/18 10:34	

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

METHOD BLANK: 1643088

Matrix: Water

Associated Lab Samples: 40163966009, 40163966010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<0.50	1.0	01/29/18 10:34	
Dibromomethane	ug/L	<0.43	1.0	01/29/18 10:34	
Dichlorodifluoromethane	ug/L	<0.22	1.0	01/29/18 10:34	
Diisopropyl ether	ug/L	<0.50	1.0	01/29/18 10:34	
Ethylbenzene	ug/L	<0.50	1.0	01/29/18 10:34	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	01/29/18 10:34	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	01/29/18 10:34	
m&p-Xylene	ug/L	<1.0	2.0	01/29/18 10:34	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	01/29/18 10:34	
Methylene Chloride	ug/L	<0.23	1.0	01/29/18 10:34	
n-Butylbenzene	ug/L	<0.50	1.0	01/29/18 10:34	
n-Propylbenzene	ug/L	<0.50	1.0	01/29/18 10:34	
Naphthalene	ug/L	<2.5	5.0	01/29/18 10:34	
o-Xylene	ug/L	<0.50	1.0	01/29/18 10:34	
p-Isopropyltoluene	ug/L	<0.50	1.0	01/29/18 10:34	
sec-Butylbenzene	ug/L	<2.2	5.0	01/29/18 10:34	
Styrene	ug/L	<0.50	1.0	01/29/18 10:34	
tert-Butylbenzene	ug/L	<0.18	1.0	01/29/18 10:34	
Tetrachloroethene	ug/L	<0.50	1.0	01/29/18 10:34	
Tetrahydrofuran	ug/L	<2.0	5.0	01/29/18 10:34	
Toluene	ug/L	<0.50	1.0	01/29/18 10:34	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	01/29/18 10:34	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	01/29/18 10:34	
Trichloroethene	ug/L	<0.33	1.0	01/29/18 10:34	
Trichlorofluoromethane	ug/L	<0.18	1.0	01/29/18 10:34	
Vinyl acetate	ug/L	<0.92	5.0	01/29/18 10:34	
Vinyl chloride	ug/L	<0.18	1.0	01/29/18 10:34	
4-Bromofluorobenzene (S)	%	103	61-130	01/29/18 10:34	
Dibromofluoromethane (S)	%	97	67-130	01/29/18 10:34	
Toluene-d8 (S)	%	100	70-130	01/29/18 10:34	

LABORATORY CONTROL SAMPLE: 1643089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.2	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	41.6	83	70-130	
1,1,2-Trichloroethane	ug/L	50	44.4	89	70-130	
1,1-Dichloroethane	ug/L	50	44.2	88	71-132	
1,1-Dichloroethene	ug/L	50	48.0	96	75-130	
1,2,4-Trichlorobenzene	ug/L	50	45.4	91	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	40.4	81	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	44.3	89	70-130	
1,2-Dichlorobenzene	ug/L	50	46.2	92	70-130	
1,2-Dichloroethane	ug/L	50	44.9	90	70-131	

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

LABORATORY CONTROL SAMPLE: 1643089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	43.0	86	80-120	
1,3-Dichlorobenzene	ug/L	50	48.0	96	70-130	
1,4-Dichlorobenzene	ug/L	50	46.4	93	70-130	
Benzene	ug/L	50	47.5	95	73-145	
Bromodichloromethane	ug/L	50	45.3	91	70-130	
Bromoform	ug/L	50	43.3	87	67-130	
Bromomethane	ug/L	50	32.8	66	26-128	
Carbon disulfide	ug/L	50	54.2	108	72-156	
Carbon tetrachloride	ug/L	50	44.0	88	70-133	
Chlorobenzene	ug/L	50	46.2	92	70-130	
Chloroethane	ug/L	50	46.0	92	58-120	
Chloroform	ug/L	50	44.2	88	80-121	
Chloromethane	ug/L	50	41.3	83	40-127	
cis-1,2-Dichloroethene	ug/L	50	43.1	86	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.9	102	70-130	
Dibromochloromethane	ug/L	50	46.2	92	70-130	
Dichlorodifluoromethane	ug/L	50	31.5	63	20-135	
Ethylbenzene	ug/L	50	47.6	95	87-129	
Isopropylbenzene (Cumene)	ug/L	50	48.8	98	70-130	
m&p-Xylene	ug/L	100	93.1	93	70-130	
Methyl-tert-butyl ether	ug/L	50	41.9	84	66-143	
Methylene Chloride	ug/L	50	44.4	89	70-130	
o-Xylene	ug/L	50	45.7	91	70-130	
Styrene	ug/L	50	47.0	94	70-130	
Tetrachloroethene	ug/L	50	45.9	92	70-130	
Toluene	ug/L	50	46.0	92	82-130	
trans-1,2-Dichloroethene	ug/L	50	43.9	88	75-132	
trans-1,3-Dichloropropene	ug/L	50	46.7	93	70-130	
Trichloroethene	ug/L	50	46.2	92	70-130	
Trichlorofluoromethane	ug/L	50	48.9	98	76-133	
Vinyl chloride	ug/L	50	45.2	90	57-136	
4-Bromofluorobenzene (S)	%			105	61-130	
Dibromofluoromethane (S)	%			93	67-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1643198 1643199

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40163945002 Result	Spike Conc.	Spike Conc.	MS Result								
1,1,1-Trichloroethane	ug/L	<0.50	50	50	46.2	46.6	92	93	70-134	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	42.9	43.7	86	87	70-130	2	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	44.8	44.9	90	90	70-130	0	20		
1,1-Dichloroethane	ug/L	<0.24	50	50	44.7	43.6	89	87	71-133	2	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	46.0	50.2	92	100	75-136	9	20		
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	46.5	48.7	92	96	70-130	5	20		

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

Parameter	Units	1643198		1643199		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40163945002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	40.0	41.5	80	83	63-123	4	20		
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	44.4	45.3	89	91	70-130	2	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	46.4	46.8	92	93	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	45.2	44.6	90	89	70-131	1	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	42.9	44.8	86	90	80-120	4	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	49.0	49.7	98	99	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	47.2	47.7	94	95	70-130	1	20		
Benzene	ug/L	<0.50	50	50	48.1	48.3	96	97	73-145	0	20		
Bromodichloromethane	ug/L	<0.50	50	50	46.9	47.6	94	95	70-130	2	20		
Bromoform	ug/L	<0.50	50	50	44.2	44.8	88	90	67-130	1	20		
Bromomethane	ug/L	<2.4	50	50	38.6	39.0	77	78	26-129	1	20		
Carbon disulfide	ug/L	<0.61	50	50	52.3	55.8	104	111	72-156	6	30		
Carbon tetrachloride	ug/L	<0.50	50	50	44.7	45.0	89	90	70-134	1	20		
Chlorobenzene	ug/L	<0.50	50	50	47.4	47.3	95	95	70-130	0	20		
Chloroethane	ug/L	<0.37	50	50	46.2	46.2	92	92	58-120	0	20		
Chloroform	ug/L	<2.5	50	50	45.2	44.6	90	89	80-121	1	20		
Chloromethane	ug/L	<0.50	50	50	41.3	40.1	83	80	40-128	3	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	44.0	44.6	88	89	70-130	1	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	52.4	52.8	105	106	70-130	1	20		
Dibromochloromethane	ug/L	<0.50	50	50	45.9	47.0	92	94	70-130	2	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	30.8	30.2	62	60	20-146	2	20		
Ethylbenzene	ug/L	<0.50	50	50	48.6	49.1	97	98	87-129	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	50.0	50.1	100	100	70-130	0	20		
m&p-Xylene	ug/L	<1.0	100	100	95.0	95.7	95	96	70-130	1	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	42.5	42.8	85	86	66-143	1	20		
Methylene Chloride	ug/L	0.69J	50	50	44.4	45.8	87	90	70-130	3	20		
o-Xylene	ug/L	<0.50	50	50	47.3	46.7	95	93	70-130	1	20		
Styrene	ug/L	<0.50	50	50	47.9	47.9	96	96	70-130	0	20		
Tetrachloroethene	ug/L	<0.50	50	50	47.6	47.9	95	96	70-130	1	20		
Toluene	ug/L	<0.50	50	50	46.8	47.7	94	95	82-131	2	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	46.4	46.6	93	93	75-135	0	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	47.6	47.9	95	96	70-130	1	20		
Trichloroethene	ug/L	<0.33	50	50	47.8	48.1	96	96	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	49.0	48.8	98	98	76-150	0	20		
Vinyl chloride	ug/L	<0.18	50	50	44.4	43.9	89	88	56-143	1	20		
4-Bromofluorobenzene (S)	%						105	103	61-130				
Dibromofluoromethane (S)	%						93	91	67-130				
Toluene-d8 (S)	%						99	98	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 36020 WAM
Pace Project No.: 40163966

QC Batch: 280196 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40163966001

METHOD BLANK: 1644185 Matrix: Solid
Associated Lab Samples: 40163966001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	01/31/18 11:37	
2-Methylnaphthalene	ug/kg	<5.0	16.7	01/31/18 11:37	
Acenaphthene	ug/kg	<3.9	12.9	01/31/18 11:37	
Acenaphthylene	ug/kg	<3.3	11.0	01/31/18 11:37	
Anthracene	ug/kg	<5.7	19.0	01/31/18 11:37	
Benzo(a)anthracene	ug/kg	<3.2	10.6	01/31/18 11:37	
Benzo(a)pyrene	ug/kg	<2.5	8.4	01/31/18 11:37	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	01/31/18 11:37	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	01/31/18 11:37	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	01/31/18 11:37	
Chrysene	ug/kg	<3.4	11.2	01/31/18 11:37	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.5	01/31/18 11:37	
Fluoranthene	ug/kg	<5.2	17.4	01/31/18 11:37	
Fluorene	ug/kg	<4.1	13.8	01/31/18 11:37	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	01/31/18 11:37	
Naphthalene	ug/kg	<8.4	28.1	01/31/18 11:37	
Phenanthrene	ug/kg	<11.7	38.8	01/31/18 11:37	
Pyrene	ug/kg	<4.5	15.0	01/31/18 11:37	
2-Fluorobiphenyl (S)	%	47	23-106	01/31/18 11:37	
Terphenyl-d14 (S)	%	56	29-106	01/31/18 11:37	

LABORATORY CONTROL SAMPLE: 1644186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	334	212	63	49-102	
2-Methylnaphthalene	ug/kg	334	200	60	47-91	
Acenaphthene	ug/kg	334	226	68	52-97	
Acenaphthylene	ug/kg	334	205	61	49-97	
Anthracene	ug/kg	334	251	75	62-101	
Benzo(a)anthracene	ug/kg	334	205	61	53-95	
Benzo(a)pyrene	ug/kg	334	200	60	57-108	
Benzo(b)fluoranthene	ug/kg	334	189	57	53-113	
Benzo(g,h,i)perylene	ug/kg	334	227	68	43-114	
Benzo(k)fluoranthene	ug/kg	334	241	72	66-116	
Chrysene	ug/kg	334	256	77	64-109	
Dibenz(a,h)anthracene	ug/kg	334	215	64	50-105	
Fluoranthene	ug/kg	334	261	78	58-107	
Fluorene	ug/kg	334	184	55	52-99	
Indeno(1,2,3-cd)pyrene	ug/kg	334	230	69	51-113	
Naphthalene	ug/kg	334	199	60	50-91	

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

LABORATORY CONTROL SAMPLE: 1644186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	334	216	65	57-101	
Pyrene	ug/kg	334	235	70	50-102	
2-Fluorobiphenyl (S)	%			61	23-106	
Terphenyl-d14 (S)	%			60	29-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1644187 1644188

Parameter	Units	40163967001		1644188		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1-Methylnaphthalene	ug/kg	<4.6	383	382	276	277	72	72	37-102	0	29
2-Methylnaphthalene	ug/kg	<5.7	383	382	249	254	65	66	44-91	2	36
Acenaphthene	ug/kg	<4.5	383	382	263	258	69	67	46-97	2	26
Acenaphthylene	ug/kg	<3.8	383	382	244	240	64	63	47-97	2	29
Anthracene	ug/kg	<6.6	383	382	269	263	70	68	50-101	2	28
Benzo(a)anthracene	ug/kg	<3.6	383	382	237	240	61	62	48-95	1	28
Benzo(a)pyrene	ug/kg	3.0J	383	382	255	258	66	67	47-108	2	36
Benzo(b)fluoranthene	ug/kg	<3.2	383	382	248	265	64	68	42-113	6	34
Benzo(g,h,i)perylene	ug/kg	4.3J	383	382	221	180	57	46	18-114	20	30
Benzo(k)fluoranthene	ug/kg	3.4J	383	382	248	261	64	67	50-116	5	27
Chrysene	ug/kg	8.6J	383	382	272	289	69	73	55-109	6	28
Dibenz(a,h)anthracene	ug/kg	<2.6	383	382	239	202	62	53	39-105	17	29
Fluoranthene	ug/kg	11.4J	383	382	312	336	78	85	41-107	7	28
Fluorene	ug/kg	<4.8	383	382	260	258	68	67	48-99	1	28
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	383	382	245	208	64	54	27-113	17	30
Naphthalene	ug/kg	<9.7	383	382	239	240	62	63	40-91	0	37
Phenanthrene	ug/kg	<13.4	383	382	267	283	67	72	46-101	6	40
Pyrene	ug/kg	7.5J	383	382	264	275	67	70	50-102	4	31
2-Fluorobiphenyl (S)	%						60	58	23-106		
Terphenyl-d14 (S)	%						57	55	29-106		

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QUALITY CONTROL DATA

Project: 36020 WAM
Pace Project No.: 40163966

QC Batch: 280401 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40163966002, 40163966003, 40163966004, 40163966005, 40163966006

METHOD BLANK: 1645127 Matrix: Solid
Associated Lab Samples: 40163966002, 40163966003, 40163966004, 40163966005, 40163966006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	02/02/18 11:21	
2-Methylnaphthalene	ug/kg	<5.0	16.7	02/02/18 11:21	
Acenaphthene	ug/kg	<3.9	12.9	02/02/18 11:21	
Acenaphthylene	ug/kg	<3.3	11.0	02/02/18 11:21	
Anthracene	ug/kg	<5.7	19.0	02/02/18 11:21	
Benzo(a)anthracene	ug/kg	<3.2	10.6	02/02/18 11:21	
Benzo(a)pyrene	ug/kg	<2.5	8.4	02/02/18 11:21	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	02/02/18 11:21	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	02/02/18 11:21	
Benzo(k)fluoranthene	ug/kg	<2.5	8.3	02/02/18 11:21	
Chrysene	ug/kg	<3.4	11.2	02/02/18 11:21	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.4	02/02/18 11:21	
Fluoranthene	ug/kg	<5.2	17.4	02/02/18 11:21	
Fluorene	ug/kg	<4.1	13.8	02/02/18 11:21	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	02/02/18 11:21	
Naphthalene	ug/kg	<8.4	28.1	02/02/18 11:21	
Phenanthrene	ug/kg	<11.6	38.7	02/02/18 11:21	
Pyrene	ug/kg	<4.5	15.0	02/02/18 11:21	
2-Fluorobiphenyl (S)	%	69	23-106	02/02/18 11:21	
Terphenyl-d14 (S)	%	91	29-106	02/02/18 11:21	

LABORATORY CONTROL SAMPLE: 1645128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	243	73	49-102	
2-Methylnaphthalene	ug/kg	333	220	66	47-91	
Acenaphthene	ug/kg	333	267	80	52-97	
Acenaphthylene	ug/kg	333	263	79	49-97	
Anthracene	ug/kg	333	282	85	62-101	
Benzo(a)anthracene	ug/kg	333	260	78	53-95	
Benzo(a)pyrene	ug/kg	333	270	81	57-108	
Benzo(b)fluoranthene	ug/kg	333	266	80	53-113	
Benzo(g,h,i)perylene	ug/kg	333	251	75	43-114	
Benzo(k)fluoranthene	ug/kg	333	292	88	66-116	
Chrysene	ug/kg	333	283	85	64-109	
Dibenz(a,h)anthracene	ug/kg	333	264	79	50-105	
Fluoranthene	ug/kg	333	267	80	58-107	
Fluorene	ug/kg	333	270	81	52-99	
Indeno(1,2,3-cd)pyrene	ug/kg	333	267	80	51-113	
Naphthalene	ug/kg	333	231	69	50-91	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

LABORATORY CONTROL SAMPLE: 1645128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	279	84	57-101	
Pyrene	ug/kg	333	278	83	50-102	
2-Fluorobiphenyl (S)	%			79	23-106	
Terphenyl-d14 (S)	%			85	29-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1645129 1645130

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		40163966002	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
1-Methylnaphthalene	ug/kg	<4.6	383	383	270	296	70	77	37-102	9	29		
2-Methylnaphthalene	ug/kg	<5.7	383	383	246	268	64	70	44-91	9	36		
Acenaphthene	ug/kg	<4.5	383	383	289	316	75	83	46-97	9	26		
Acenaphthylene	ug/kg	<3.8	383	383	285	314	75	82	47-97	10	29		
Anthracene	ug/kg	<6.6	383	383	299	330	78	86	50-101	10	28		
Benzo(a)anthracene	ug/kg	<3.6	383	383	272	305	71	80	48-95	11	28		
Benzo(a)pyrene	ug/kg	<2.9	383	383	281	316	73	83	47-108	12	36		
Benzo(b)fluoranthene	ug/kg	<3.2	383	383	279	324	73	85	42-113	15	34		
Benzo(g,h,i)perylene	ug/kg	<2.3	383	383	149	145	39	38	18-114	3	30		
Benzo(k)fluoranthene	ug/kg	<2.9	383	383	304	332	80	87	50-116	9	27		
Chrysene	ug/kg	<3.9	383	383	281	331	73	86	55-109	16	28		
Dibenz(a,h)anthracene	ug/kg	<2.6	383	383	227	238	59	62	39-105	5	29		
Fluoranthene	ug/kg	<6.0	383	383	276	305	72	80	41-107	10	28		
Fluorene	ug/kg	<4.7	383	383	286	315	75	82	48-99	10	28		
Indeno(1,2,3-cd)pyrene	ug/kg	<2.5	383	383	209	214	54	56	27-113	3	30		
Naphthalene	ug/kg	<9.7	383	383	262	282	69	74	40-91	7	37		
Phenanthrene	ug/kg	<13.4	383	383	294	324	77	85	46-101	10	40		
Pyrene	ug/kg	<5.2	383	383	289	334	76	87	50-102	14	31		
2-Fluorobiphenyl (S)	%						72	81	23-106				
Terphenyl-d14 (S)	%						74	87	29-106				

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QUALITY CONTROL DATA

Project: 36020 WAM
Pace Project No.: 40163966

QC Batch: 280573 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40163966007, 40163966008

METHOD BLANK: 1645913 Matrix: Solid
Associated Lab Samples: 40163966007, 40163966008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	02/06/18 14:17	
2-Methylnaphthalene	ug/kg	<5.0	16.7	02/06/18 14:17	
Acenaphthene	ug/kg	<3.9	12.9	02/06/18 14:17	
Acenaphthylene	ug/kg	<3.3	11.0	02/06/18 14:17	
Anthracene	ug/kg	<5.7	19.0	02/06/18 14:17	
Benzo(a)anthracene	ug/kg	<3.2	10.6	02/06/18 14:17	
Benzo(a)pyrene	ug/kg	<2.5	8.4	02/06/18 14:17	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	02/06/18 14:17	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	02/06/18 14:17	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	02/06/18 14:17	
Chrysene	ug/kg	<3.4	11.2	02/06/18 14:17	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.5	02/06/18 14:17	
Fluoranthene	ug/kg	<5.2	17.4	02/06/18 14:17	
Fluorene	ug/kg	<4.1	13.8	02/06/18 14:17	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	02/06/18 14:17	
Naphthalene	ug/kg	<8.4	28.1	02/06/18 14:17	
Phenanthrene	ug/kg	<11.7	38.8	02/06/18 14:17	
Pyrene	ug/kg	<4.5	15.0	02/06/18 14:17	
2-Fluorobiphenyl (S)	%	79	23-106	02/06/18 14:17	
Terphenyl-d14 (S)	%	89	29-106	02/06/18 14:17	

LABORATORY CONTROL SAMPLE: 1645914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	269	81	49-102	
2-Methylnaphthalene	ug/kg	333	248	74	47-91	
Acenaphthene	ug/kg	333	295	89	52-97	
Acenaphthylene	ug/kg	333	291	87	49-97	
Anthracene	ug/kg	333	325	98	62-101	
Benzo(a)anthracene	ug/kg	333	297	89	53-95	
Benzo(a)pyrene	ug/kg	333	313	94	57-108	
Benzo(b)fluoranthene	ug/kg	333	311	93	53-113	
Benzo(g,h,i)perylene	ug/kg	333	318	95	43-114	
Benzo(k)fluoranthene	ug/kg	333	330	99	66-116	
Chrysene	ug/kg	333	327	98	64-109	
Dibenz(a,h)anthracene	ug/kg	333	320	96	50-105	
Fluoranthene	ug/kg	333	306	92	58-107	
Fluorene	ug/kg	333	303	91	52-99	
Indeno(1,2,3-cd)pyrene	ug/kg	333	325	98	51-113	
Naphthalene	ug/kg	333	253	76	50-91	

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

LABORATORY CONTROL SAMPLE: 1645914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	320	96	57-101	
Pyrene	ug/kg	333	315	94	50-102	
2-Fluorobiphenyl (S)	%			85	23-106	
Terphenyl-d14 (S)	%			98	29-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1645915 1645916

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
		40164168001 Result	Spike Conc.	Spike Conc.	Result						RPD	RPD	
1-Methylnaphthalene	ug/kg	<4.2	351	351	277	290	79	83	37-102	5	29		
2-Methylnaphthalene	ug/kg	<5.3	351	351	248	261	71	74	44-91	5	36		
Acenaphthene	ug/kg	<4.1	351	351	267	291	76	83	46-97	8	26		
Acenaphthylene	ug/kg	<3.5	351	351	266	287	76	82	47-97	7	29		
Anthracene	ug/kg	<6.0	351	351	274	303	78	86	50-101	10	28		
Benzo(a)anthracene	ug/kg	<3.3	351	351	251	278	71	79	48-95	10	28		
Benzo(a)pyrene	ug/kg	<2.6	351	351	261	289	74	82	47-108	10	36		
Benzo(b)fluoranthene	ug/kg	<3.0	351	351	267	294	76	83	42-113	10	34		
Benzo(g,h,i)perylene	ug/kg	<2.1	351	351	203	213	57	60	18-114	4	30		
Benzo(k)fluoranthene	ug/kg	<2.6	351	351	270	297	77	85	50-116	10	27		
Chrysene	ug/kg	<3.5	351	351	273	309	78	88	55-109	12	28		
Dibenz(a,h)anthracene	ug/kg	<2.4	351	351	244	264	70	75	39-105	8	29		
Fluoranthene	ug/kg	<5.5	351	351	251	279	71	79	41-107	11	28		
Fluorene	ug/kg	<4.4	351	351	263	288	75	82	48-99	9	28		
Indeno(1,2,3-cd)pyrene	ug/kg	<2.3	351	351	238	257	67	73	27-113	7	30		
Naphthalene	ug/kg	<8.9	351	351	247	256	70	73	40-91	3	37		
Phenanthrene	ug/kg	<12.3	351	351	273	298	78	85	46-101	9	40		
Pyrene	ug/kg	<4.7	351	351	271	303	77	86	50-102	11	31		
2-Fluorobiphenyl (S)	%						76	82	23-106				
Terphenyl-d14 (S)	%						76	86	29-106				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 36020 WAM
Pace Project No.: 40163966

QC Batch: 279968 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40163966009, 40163966010

METHOD BLANK: 1643167 Matrix: Water
Associated Lab Samples: 40163966009, 40163966010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	01/30/18 11:12	
2-Methylnaphthalene	ug/L	<0.0049	0.024	01/30/18 11:12	
Acenaphthene	ug/L	<0.0061	0.030	01/30/18 11:12	
Acenaphthylene	ug/L	<0.0050	0.025	01/30/18 11:12	
Anthracene	ug/L	<0.010	0.052	01/30/18 11:12	
Benzo(a)anthracene	ug/L	<0.0076	0.038	01/30/18 11:12	
Benzo(a)pyrene	ug/L	<0.011	0.053	01/30/18 11:12	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	01/30/18 11:12	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	01/30/18 11:12	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	01/30/18 11:12	
Chrysene	ug/L	<0.013	0.065	01/30/18 11:12	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	01/30/18 11:12	
Fluoranthene	ug/L	<0.011	0.053	01/30/18 11:12	
Fluorene	ug/L	<0.0080	0.040	01/30/18 11:12	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	01/30/18 11:12	
Naphthalene	ug/L	<0.018	0.092	01/30/18 11:12	
Phenanthrene	ug/L	<0.014	0.069	01/30/18 11:12	
Pyrene	ug/L	0.0088J	0.038	01/30/18 11:12	
2-Fluorobiphenyl (S)	%	47	35-84	01/30/18 11:12	
Terphenyl-d14 (S)	%	74	10-129	01/30/18 11:12	

LABORATORY CONTROL SAMPLE: 1643168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.4	71	39-83	
2-Methylnaphthalene	ug/L	2	1.4	69	38-86	
Acenaphthene	ug/L	2	1.5	75	35-85	
Acenaphthylene	ug/L	2	1.5	77	31-88	
Anthracene	ug/L	2	1.9	93	47-104	
Benzo(a)anthracene	ug/L	2	1.6	81	36-105	
Benzo(a)pyrene	ug/L	2	1.8	89	69-117	
Benzo(b)fluoranthene	ug/L	2	1.5	76	54-107	
Benzo(g,h,i)perylene	ug/L	2	1.0	52	13-86	
Benzo(k)fluoranthene	ug/L	2	1.8	90	63-128	
Chrysene	ug/L	2	2.2	108	69-150	
Dibenz(a,h)anthracene	ug/L	2	0.94	47	10-87	
Fluoranthene	ug/L	2	1.9	97	57-103	
Fluorene	ug/L	2	1.7	83	38-85	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	87	40-111	
Naphthalene	ug/L	2	1.2	61	39-82	

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

LABORATORY CONTROL SAMPLE: 1643168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.6	82	46-96	
Pyrene	ug/L	2	1.9	97	57-110	
2-Fluorobiphenyl (S)	%			63	35-84	
Terphenyl-d14 (S)	%			91	10-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1643190 1643191

Parameter	Units	40163967002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
1-Methylnaphthalene	ug/L	<0.0059	2	2	1.2	1.4	61	70	27-86	13	29		
2-Methylnaphthalene	ug/L	<0.0049	2	2	1.2	1.3	58	66	30-86	13	35		
Acenaphthene	ug/L	<0.0061	2	2	1.2	1.4	61	70	28-85	13	29		
Acenaphthylene	ug/L	0.0055J	2	2	1.2	1.4	61	69	27-88	13	29		
Anthracene	ug/L	<0.010	2	2	1.7	1.8	83	88	38-104	6	35		
Benzo(a)anthracene	ug/L	<0.0076	2	2	1.1	1.1	53	57	10-105	7	28		
Benzo(a)pyrene	ug/L	<0.011	2	2	1.5	1.5	75	75	10-130	0	26		
Benzo(b)fluoranthene	ug/L	<0.0057	2	2	1.2	1.3	60	65	10-115	7	25		
Benzo(g,h,i)perylene	ug/L	<0.0068	2	2	0.68	0.78	34	39	10-87	14	42		
Benzo(k)fluoranthene	ug/L	<0.0076	2	2	1.7	1.8	87	91	10-133	5	25		
Chrysene	ug/L	<0.013	2	2	2.2	2.2	112	112	17-150	0	24		
Dibenz(a,h)anthracene	ug/L	<0.010	2	2	0.66	0.75	33	38	10-89	13	49		
Fluoranthene	ug/L	<0.011	2	2	1.7	1.8	83	91	41-103	9	32		
Fluorene	ug/L	<0.0080	2	2	1.3	1.5	66	75	32-85	12	28		
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	2	2	1.3	1.3	65	67	10-111	3	37		
Naphthalene	ug/L	0.037J	2	2	1.2	1.3	56	64	23-88	12	28		
Phenanthrene	ug/L	0.015J	2	2	1.3	1.4	64	70	33-96	9	25		
Pyrene	ug/L	0.013J	2	2	1.7	1.9	86	93	38-110	7	28		
2-Fluorobiphenyl (S)	%						54	60	35-84				
Terphenyl-d14 (S)	%						79	85	10-129				

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40163966

QC Batch: 279999

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40163966001, 40163966002, 40163966003, 40163966004, 40163966005, 40163966006, 40163966007, 40163966008

SAMPLE DUPLICATE: 1643233

Parameter	Units	40163966004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.7	16.2	9	10	

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QUALIFIERS

Project: 36020 WAM

Pace Project No.: 40163966

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

B Analyte was detected in the associated method blank.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 36020 WAM

Pace Project No.: 40163966

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40163966001	PV-SB-MW-02-02	EPA 3050	279990	EPA 6010	280153
40163966002	PV-SB-MW-02-04	EPA 3050	279990	EPA 6010	280153
40163966003	PV-FD-01	EPA 3050	279990	EPA 6010	280153
40163966004	PV-SB-MW-03-01	EPA 3050	279990	EPA 6010	280153
40163966005	PV-SB-MW-04-01	EPA 3050	279990	EPA 6010	280153
40163966006	PV-SB-MW-04-03	EPA 3050	279990	EPA 6010	280153
40163966007	PV-SB-MW-01-02	EPA 3050	279990	EPA 6010	280153
40163966008	PV-SB-MW-01-03	EPA 3050	279990	EPA 6010	280153
40163966009	PV-EB-01	EPA 3010	280706	EPA 6020	280753
40163966010	PV-EB-02	EPA 3010	280706	EPA 6020	280753
40163966001	PV-SB-MW-02-02	EPA 3546	280196	EPA 8270 by SIM	280232
40163966002	PV-SB-MW-02-04	EPA 3546	280401	EPA 8270 by SIM	280441
40163966003	PV-FD-01	EPA 3546	280401	EPA 8270 by SIM	280441
40163966004	PV-SB-MW-03-01	EPA 3546	280401	EPA 8270 by SIM	280441
40163966005	PV-SB-MW-04-01	EPA 3546	280401	EPA 8270 by SIM	280441
40163966006	PV-SB-MW-04-03	EPA 3546	280401	EPA 8270 by SIM	280441
40163966007	PV-SB-MW-01-02	EPA 3546	280573	EPA 8270 by SIM	280635
40163966008	PV-SB-MW-01-03	EPA 3546	280573	EPA 8270 by SIM	280635
40163966009	PV-EB-01	EPA 3510	279968	EPA 8270 by HVI	280027
40163966010	PV-EB-02	EPA 3510	279968	EPA 8270 by HVI	280027
40163966001	PV-SB-MW-02-02	EPA 5035/5030B	279995	EPA 8260	280002
40163966002	PV-SB-MW-02-04	EPA 5035/5030B	279995	EPA 8260	280002
40163966003	PV-FD-01	EPA 5035/5030B	279995	EPA 8260	280002
40163966004	PV-SB-MW-03-01	EPA 5035/5030B	279995	EPA 8260	280002
40163966005	PV-SB-MW-04-01	EPA 5035/5030B	279995	EPA 8260	280002
40163966006	PV-SB-MW-04-03	EPA 5035/5030B	279995	EPA 8260	280002
40163966007	PV-SB-MW-01-02	EPA 5035/5030B	279995	EPA 8260	280002
40163966008	PV-SB-MW-01-03	EPA 5035/5030B	279995	EPA 8260	280002
40163966011	TRIP BLANK	EPA 5035/5030B	279995	EPA 8260	280002
40163966009	PV-EB-01	EPA 8260	279940		
40163966010	PV-EB-02	EPA 8260	279940		
40163966001	PV-SB-MW-02-02	ASTM D2974-87	279999		
40163966002	PV-SB-MW-02-04	ASTM D2974-87	279999		
40163966003	PV-FD-01	ASTM D2974-87	279999		
40163966004	PV-SB-MW-03-01	ASTM D2974-87	279999		
40163966005	PV-SB-MW-04-01	ASTM D2974-87	279999		
40163966006	PV-SB-MW-04-03	ASTM D2974-87	279999		
40163966007	PV-SB-MW-01-02	ASTM D2974-87	279999		
40163966008	PV-SB-MW-01-03	ASTM D2974-87	279999		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Ramaker + Assoc.
 Branch/Location: Sank City, WI
 Project Contact: Jodie Reutter
 Phone: 608-643-4100
 Project Number: 36020
 Project Name: 36020 WAM
 Project State: WI
 Sampled By (Print): Jessica Norman
 Sampled By (Sign): *Jessica Norman*
 PO #:
 Regulatory Program:



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40163966

CHAIN OF CUSTODY

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

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

Y/N	Pick Letter	F	A	A	A	N	N	N
		F	A	A	A	N	N	N
Analyses Requested	VOCS	X	X	X	X			
	PAHS	X	X	X	X			
	Lead	X	X	X	X			
	Moisture							
	VOCS					X	X	X
	PAHS					X	X	X
	Lead					X	X	X

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		MATRIX
		DATE	TIME	
001	PV-SB-MW-02-02	1/24/18	9:57	S
002	PV-SB-MW-02-04	1/24/18	10:10	S
003	PV-FD-01	1/24/18	10:03	S
004	PV-SB-MW-03-01	1/24/18	9:17	S
005	PV-SB-MW-04-01	1/24/18	11:25	S
006	PV-SB-MW-04-03	1/24/18	11:31	S
007	PV-SB-MW-01-02	1/24/18	12:10	S
008	PV-SB-MW-01-03	1/24/18	12:18	S
009	PV-EB-01	1/24/18	8:29	W
010	PV-EB-02	1/24/18	8:38	W
011	Trip Blank	1/24/18		

Quote #:
 Mail To Contact: Jodie Reutter
 Mail To Company: Ramaker
 Mail To Address: 855 Community Dr. Sank City WI 53583
 Invoice To Contact: SAA
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone: 608-643-4100
 CLIENT COMMENTS:
 LAB COMMENTS (Lab Use Only):
 Profile #:

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Relinquished By: *Jessica Norman* Date/Time: 1/24/18 5:48
 Received By: *Alena* Date/Time: 1/24/18 09:15
 Transmit Prelim Rush Results by (complete what you want): *FedEx*
 Relinquished By: *FedEx* Date/Time: 1/24/18 09:15
 Received By: *Alena* Date/Time: 1/24/18 09:15
 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:

PACE Project No. 40163966
 Receipt Temp = 20 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present
 Intact / Not Intact



Sample Condition Upon Receipt

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

Project #: WO#: 40163966

Client Name: Ramaker

Courier: Fed Ex UPS Client Pace Other:

Tracking #: 841557603504



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: PO1 Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 1/26/18
Initials: [Signature]

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

Comments:

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

Client Notification/ Resolution: If checked, see attached form for additional comments
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: RMP for DM Date: 1/26/18

February 26, 2018

Jodie Peotter
Ramaker & Associates, Inc.
855 Community Drive
Sauk City, WI 53583

RE: Project: 36020 WAM
Pace Project No.: 40164558

Dear Jodie Peotter:

Enclosed are the analytical results for sample(s) received by the laboratory on February 10, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mike Ursin, Ramaker & Associates, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 36020 WAM

Pace Project No.: 40164558

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 36020 WAM

Pace Project No.: 40164558

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40164558001	PV-TB-04	Water	02/08/18 00:00	02/10/18 07:40
40164558002	PV-GW-FB	Water	02/08/18 11:50	02/10/18 07:40
40164558003	PV-GW-MW3-01	Water	02/08/18 13:16	02/10/18 07:40
40164558004	PV-GW-MW4-01	Water	02/08/18 14:45	02/10/18 07:40
40164558005	PV-GW-MW2-01	Water	02/08/18 16:05	02/10/18 07:40
40164558006	PV-GW-FD-02	Water	02/08/18 16:10	02/10/18 07:40
40164558007	PV-GW-MW1-01	Water	02/08/18 17:10	02/10/18 09:09

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 36020 WAM

Pace Project No.: 40164558

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40164558001	PV-TB-04	EPA 8260	LAP	71	PASI-G
40164558002	PV-GW-FB	EPA 6020	SDW	1	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	71	PASI-G
40164558003	PV-GW-MW3-01	EPA 6020	SDW	1	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	71	PASI-G
40164558004	PV-GW-MW4-01	EPA 6020	SDW	1	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	71	PASI-G
40164558005	PV-GW-MW2-01	EPA 6020	SDW	1	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	71	PASI-G
40164558006	PV-GW-FD-02	EPA 6020	SDW	1	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	71	PASI-G
40164558007	PV-GW-MW1-01	EPA 6020	SDW	1	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	71	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 36020 WAM
Pace Project No.: 40164558

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40164558002 PV-GW-FB						
EPA 8270 by HVI	Pyrene	0.0080J	ug/L	0.038	02/12/18 15:24	B
EPA 8260	Acetone	3.3J	ug/L	20.0	02/12/18 14:13	
40164558003 PV-GW-MW3-01						
EPA 8270 by HVI	Acenaphthene	0.068	ug/L	0.029	02/12/18 15:42	
EPA 8270 by HVI	Acenaphthylene	0.037	ug/L	0.024	02/12/18 15:42	
EPA 8270 by HVI	Anthracene	0.052	ug/L	0.050	02/12/18 15:42	
EPA 8270 by HVI	Fluoranthene	0.061	ug/L	0.051	02/12/18 15:42	
EPA 8270 by HVI	Fluorene	0.062	ug/L	0.038	02/12/18 15:42	
EPA 8270 by HVI	1-Methylnaphthalene	0.026J	ug/L	0.028	02/12/18 15:42	
EPA 8270 by HVI	2-Methylnaphthalene	0.046	ug/L	0.024	02/12/18 15:42	
EPA 8270 by HVI	Naphthalene	0.10	ug/L	0.088	02/12/18 15:42	
EPA 8270 by HVI	Phenanthrene	0.20	ug/L	0.066	02/12/18 15:42	
EPA 8270 by HVI	Pyrene	0.034J	ug/L	0.037	02/12/18 15:42	B
EPA 8260	1,2-Dichloroethane	2.6	ug/L	1.0	02/12/18 17:12	
EPA 8260	Acetone	12.3J	ug/L	20.0	02/12/18 17:12	
EPA 8260	Methyl-tert-butyl ether	0.45J	ug/L	1.0	02/12/18 17:12	
40164558004 PV-GW-MW4-01						
EPA 8270 by HVI	Acenaphthene	0.0090J	ug/L	0.030	02/12/18 16:01	
EPA 8270 by HVI	Fluorene	0.012J	ug/L	0.039	02/12/18 16:01	
EPA 8270 by HVI	1-Methylnaphthalene	0.0072J	ug/L	0.029	02/12/18 16:01	
EPA 8270 by HVI	2-Methylnaphthalene	0.0065J	ug/L	0.024	02/12/18 16:01	
EPA 8270 by HVI	Pyrene	0.012J	ug/L	0.038	02/12/18 16:01	B
EPA 8260	1,2-Dichloroethane	3.3	ug/L	1.0	02/12/18 17:34	
EPA 8260	Methyl-tert-butyl ether	1.0	ug/L	1.0	02/12/18 17:34	
40164558005 PV-GW-MW2-01						
EPA 8270 by HVI	1-Methylnaphthalene	0.0083J	ug/L	0.028	02/12/18 16:19	
EPA 8270 by HVI	2-Methylnaphthalene	0.0091J	ug/L	0.024	02/12/18 16:19	
EPA 8270 by HVI	Pyrene	0.0095J	ug/L	0.037	02/12/18 16:19	B
EPA 8260	1,2-Dichloroethane	3.9	ug/L	1.0	02/12/18 17:57	
EPA 8260	Methyl-tert-butyl ether	1.4	ug/L	1.0	02/12/18 17:57	
40164558006 PV-GW-FD-02						
EPA 8270 by HVI	1-Methylnaphthalene	0.011J	ug/L	0.029	02/12/18 16:37	
EPA 8270 by HVI	2-Methylnaphthalene	0.0084J	ug/L	0.024	02/12/18 16:37	
EPA 8270 by HVI	Pyrene	0.011J	ug/L	0.037	02/12/18 16:37	B
EPA 8260	1,2-Dichloroethane	4.0	ug/L	1.0	02/12/18 18:19	
EPA 8260	Methyl-tert-butyl ether	1.4	ug/L	1.0	02/12/18 18:19	
40164558007 PV-GW-MW1-01						
EPA 8270 by HVI	Acenaphthene	0.0062J	ug/L	0.030	02/12/18 16:56	
EPA 8270 by HVI	1-Methylnaphthalene	0.0094J	ug/L	0.029	02/12/18 16:56	
EPA 8270 by HVI	2-Methylnaphthalene	0.0076J	ug/L	0.024	02/12/18 16:56	
EPA 8270 by HVI	Naphthalene	0.040J	ug/L	0.091	02/12/18 16:56	
EPA 8270 by HVI	Pyrene	0.011J	ug/L	0.038	02/12/18 16:56	B
EPA 8260	1,2-Dichloroethane	4.8	ug/L	1.0	02/12/18 18:41	
EPA 8260	Methyl-tert-butyl ether	1.4	ug/L	1.0	02/12/18 18:41	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-TB-04 Lab ID: 40164558001 Collected: 02/08/18 00:00 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		02/12/18 13:50	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	71-55-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		02/12/18 13:50	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		02/12/18 13:50	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		02/12/18 13:50	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		02/12/18 13:50	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		02/12/18 13:50	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		02/12/18 13:50	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		02/12/18 13:50	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		02/12/18 13:50	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		02/12/18 13:50	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	95-50-1	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		02/12/18 13:50	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		02/12/18 13:50	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	106-46-7	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		02/12/18 13:50	594-20-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		02/12/18 13:50	78-93-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	95-49-8	
2-Hexanone	<1.1	ug/L	5.0	1.1	1		02/12/18 13:50	591-78-6	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		02/12/18 13:50	106-43-4	
4-Methyl-2-pentanone (MIBK)	<2.1	ug/L	5.0	2.1	1		02/12/18 13:50	108-10-1	
Acetone	<3.0	ug/L	20.0	3.0	1		02/12/18 13:50	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		02/12/18 13:50	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		02/12/18 13:50	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		02/12/18 13:50	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		02/12/18 13:50	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		02/12/18 13:50	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		02/12/18 13:50	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		02/12/18 13:50	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		02/12/18 13:50	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		02/12/18 13:50	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		02/12/18 13:50	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-TB-04 **Lab ID: 40164558001** Collected: 02/08/18 00:00 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		02/12/18 13:50	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		02/12/18 13:50	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/12/18 13:50	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		02/12/18 13:50	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		02/12/18 13:50	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		02/12/18 13:50	75-69-4	
Vinyl acetate	<0.92	ug/L	5.0	0.92	1		02/12/18 13:50	108-05-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/12/18 13:50	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/12/18 13:50	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		02/12/18 13:50	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		02/12/18 13:50	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		02/12/18 13:50	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		02/12/18 13:50	98-06-6	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/12/18 13:50	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		02/12/18 13:50	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		02/12/18 13:50	460-00-4	
Dibromofluoromethane (S)	96	%	67-130		1		02/12/18 13:50	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		02/12/18 13:50	2037-26-5	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-GW-FB **Lab ID: 40164558002** Collected: 02/08/18 11:50 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/12/18 14:13	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		02/12/18 14:13	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		02/12/18 14:13	460-00-4	
Dibromofluoromethane (S)	97	%	67-130		1		02/12/18 14:13	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		02/12/18 14:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 36020 WAM
Pace Project No.: 40164558

Sample: PV-GW-MW3-01 **Lab ID: 40164558003** Collected: 02/08/18 13:16 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	02/13/18 07:09	02/22/18 15:05	7439-92-1	
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.068	ug/L	0.029	0.0058	1	02/12/18 09:02	02/12/18 15:42	83-32-9	
Acenaphthylene	0.037	ug/L	0.024	0.0048	1	02/12/18 09:02	02/12/18 15:42	208-96-8	
Anthracene	0.052	ug/L	0.050	0.010	1	02/12/18 09:02	02/12/18 15:42	120-12-7	
Benzo(a)anthracene	<0.0073	ug/L	0.036	0.0073	1	02/12/18 09:02	02/12/18 15:42	56-55-3	
Benzo(a)pyrene	<0.010	ug/L	0.051	0.010	1	02/12/18 09:02	02/12/18 15:42	50-32-8	
Benzo(b)fluoranthene	<0.0055	ug/L	0.028	0.0055	1	02/12/18 09:02	02/12/18 15:42	205-99-2	
Benzo(g,h,i)perylene	<0.0065	ug/L	0.033	0.0065	1	02/12/18 09:02	02/12/18 15:42	191-24-2	
Benzo(k)fluoranthene	<0.0073	ug/L	0.036	0.0073	1	02/12/18 09:02	02/12/18 15:42	207-08-9	
Chrysene	<0.013	ug/L	0.063	0.013	1	02/12/18 09:02	02/12/18 15:42	218-01-9	
Dibenz(a,h)anthracene	<0.0096	ug/L	0.048	0.0096	1	02/12/18 09:02	02/12/18 15:42	53-70-3	
Fluoranthene	0.061	ug/L	0.051	0.010	1	02/12/18 09:02	02/12/18 15:42	206-44-0	
Fluorene	0.062	ug/L	0.038	0.0077	1	02/12/18 09:02	02/12/18 15:42	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.085	0.017	1	02/12/18 09:02	02/12/18 15:42	193-39-5	
1-Methylnaphthalene	0.026J	ug/L	0.028	0.0057	1	02/12/18 09:02	02/12/18 15:42	90-12-0	
2-Methylnaphthalene	0.046	ug/L	0.024	0.0047	1	02/12/18 09:02	02/12/18 15:42	91-57-6	
Naphthalene	0.10	ug/L	0.088	0.018	1	02/12/18 09:02	02/12/18 15:42	91-20-3	
Phenanthrene	0.20	ug/L	0.066	0.013	1	02/12/18 09:02	02/12/18 15:42	85-01-8	
Pyrene	0.034J	ug/L	0.037	0.0074	1	02/12/18 09:02	02/12/18 15:42	129-00-0	B
Surrogates									
2-Fluorobiphenyl (S)	55	%	35-84		1	02/12/18 09:02	02/12/18 15:42	321-60-8	
Terphenyl-d14 (S)	72	%	10-129		1	02/12/18 09:02	02/12/18 15:42	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		02/12/18 17:12	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		02/12/18 17:12	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		02/12/18 17:12	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		02/12/18 17:12	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		02/12/18 17:12	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		02/12/18 17:12	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		02/12/18 17:12	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		02/12/18 17:12	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		02/12/18 17:12	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		02/12/18 17:12	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	95-50-1	
1,2-Dichloroethane	2.6	ug/L	1.0	0.17	1		02/12/18 17:12	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		02/12/18 17:12	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	106-46-7	

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ANALYTICAL RESULTS

Project: 36020 WAM
Pace Project No.: 40164558

Sample: PV-GW-MW3-01 **Lab ID: 40164558003** Collected: 02/08/18 13:16 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		02/12/18 17:12	594-20-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		02/12/18 17:12	78-93-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	95-49-8	
2-Hexanone	<1.1	ug/L	5.0	1.1	1		02/12/18 17:12	591-78-6	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		02/12/18 17:12	106-43-4	
4-Methyl-2-pentanone (MIBK)	<2.1	ug/L	5.0	2.1	1		02/12/18 17:12	108-10-1	
Acetone	12.3J	ug/L	20.0	3.0	1		02/12/18 17:12	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		02/12/18 17:12	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		02/12/18 17:12	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		02/12/18 17:12	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		02/12/18 17:12	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		02/12/18 17:12	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		02/12/18 17:12	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		02/12/18 17:12	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		02/12/18 17:12	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		02/12/18 17:12	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		02/12/18 17:12	98-82-8	
Methyl-tert-butyl ether	0.45J	ug/L	1.0	0.17	1		02/12/18 17:12	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		02/12/18 17:12	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/12/18 17:12	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		02/12/18 17:12	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		02/12/18 17:12	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		02/12/18 17:12	75-69-4	
Vinyl acetate	<0.92	ug/L	5.0	0.92	1		02/12/18 17:12	108-05-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/12/18 17:12	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/12/18 17:12	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		02/12/18 17:12	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:12	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		02/12/18 17:12	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		02/12/18 17:12	98-06-6	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-GW-MW3-01 **Lab ID: 40164558003** Collected: 02/08/18 13:16 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/12/18 17:12	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		02/12/18 17:12	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		02/12/18 17:12	460-00-4	
Dibromofluoromethane (S)	98	%	67-130		1		02/12/18 17:12	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		02/12/18 17:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-GW-MW4-01 **Lab ID: 40164558004** Collected: 02/08/18 14:45 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	02/13/18 07:09	02/22/18 15:18	7439-92-1	
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.0090J	ug/L	0.030	0.0060	1	02/12/18 09:02	02/12/18 16:01	83-32-9	
Acenaphthylene	<0.0049	ug/L	0.025	0.0049	1	02/12/18 09:02	02/12/18 16:01	208-96-8	
Anthracene	<0.010	ug/L	0.052	0.010	1	02/12/18 09:02	02/12/18 16:01	120-12-7	
Benzo(a)anthracene	<0.0075	ug/L	0.037	0.0075	1	02/12/18 09:02	02/12/18 16:01	56-55-3	
Benzo(a)pyrene	<0.010	ug/L	0.052	0.010	1	02/12/18 09:02	02/12/18 16:01	50-32-8	
Benzo(b)fluoranthene	<0.0057	ug/L	0.028	0.0057	1	02/12/18 09:02	02/12/18 16:01	205-99-2	
Benzo(g,h,i)perylene	<0.0067	ug/L	0.034	0.0067	1	02/12/18 09:02	02/12/18 16:01	191-24-2	
Benzo(k)fluoranthene	<0.0075	ug/L	0.037	0.0075	1	02/12/18 09:02	02/12/18 16:01	207-08-9	
Chrysene	<0.013	ug/L	0.065	0.013	1	02/12/18 09:02	02/12/18 16:01	218-01-9	
Dibenz(a,h)anthracene	<0.0099	ug/L	0.050	0.0099	1	02/12/18 09:02	02/12/18 16:01	53-70-3	
Fluoranthene	<0.011	ug/L	0.053	0.011	1	02/12/18 09:02	02/12/18 16:01	206-44-0	
Fluorene	0.012J	ug/L	0.039	0.0079	1	02/12/18 09:02	02/12/18 16:01	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.087	0.017	1	02/12/18 09:02	02/12/18 16:01	193-39-5	
1-Methylnaphthalene	0.0072J	ug/L	0.029	0.0058	1	02/12/18 09:02	02/12/18 16:01	90-12-0	
2-Methylnaphthalene	0.0065J	ug/L	0.024	0.0049	1	02/12/18 09:02	02/12/18 16:01	91-57-6	
Naphthalene	<0.018	ug/L	0.091	0.018	1	02/12/18 09:02	02/12/18 16:01	91-20-3	
Phenanthrene	<0.014	ug/L	0.068	0.014	1	02/12/18 09:02	02/12/18 16:01	85-01-8	
Pyrene	0.012J	ug/L	0.038	0.0076	1	02/12/18 09:02	02/12/18 16:01	129-00-0	B
Surrogates									
2-Fluorobiphenyl (S)	54	%	35-84		1	02/12/18 09:02	02/12/18 16:01	321-60-8	
Terphenyl-d14 (S)	70	%	10-129		1	02/12/18 09:02	02/12/18 16:01	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		02/12/18 17:34	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		02/12/18 17:34	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		02/12/18 17:34	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		02/12/18 17:34	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		02/12/18 17:34	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		02/12/18 17:34	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		02/12/18 17:34	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		02/12/18 17:34	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		02/12/18 17:34	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		02/12/18 17:34	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	95-50-1	
1,2-Dichloroethane	3.3	ug/L	1.0	0.17	1		02/12/18 17:34	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		02/12/18 17:34	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-GW-MW4-01 **Lab ID:** 40164558004 Collected: 02/08/18 14:45 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		02/12/18 17:34	594-20-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		02/12/18 17:34	78-93-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	95-49-8	
2-Hexanone	<1.1	ug/L	5.0	1.1	1		02/12/18 17:34	591-78-6	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		02/12/18 17:34	106-43-4	
4-Methyl-2-pentanone (MIBK)	<2.1	ug/L	5.0	2.1	1		02/12/18 17:34	108-10-1	
Acetone	<3.0	ug/L	20.0	3.0	1		02/12/18 17:34	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		02/12/18 17:34	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		02/12/18 17:34	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		02/12/18 17:34	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		02/12/18 17:34	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		02/12/18 17:34	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		02/12/18 17:34	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		02/12/18 17:34	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		02/12/18 17:34	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		02/12/18 17:34	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		02/12/18 17:34	98-82-8	
Methyl-tert-butyl ether	1.0	ug/L	1.0	0.17	1		02/12/18 17:34	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		02/12/18 17:34	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/12/18 17:34	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		02/12/18 17:34	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		02/12/18 17:34	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		02/12/18 17:34	75-69-4	
Vinyl acetate	<0.92	ug/L	5.0	0.92	1		02/12/18 17:34	108-05-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/12/18 17:34	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/12/18 17:34	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		02/12/18 17:34	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:34	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		02/12/18 17:34	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		02/12/18 17:34	98-06-6	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-GW-MW4-01 **Lab ID: 40164558004** Collected: 02/08/18 14:45 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/12/18 17:34	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		02/12/18 17:34	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		02/12/18 17:34	460-00-4	
Dibromofluoromethane (S)	97	%	67-130		1		02/12/18 17:34	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		02/12/18 17:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-GW-MW2-01 **Lab ID: 40164558005** Collected: 02/08/18 16:05 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020						Preparation Method: EPA 3010			
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	02/13/18 07:09	02/22/18 15:37	7439-92-1	
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI						Preparation Method: EPA 3510			
Acenaphthene	<0.0058	ug/L	0.029	0.0058	1	02/12/18 09:02	02/12/18 16:19	83-32-9	
Acenaphthylene	<0.0048	ug/L	0.024	0.0048	1	02/12/18 09:02	02/12/18 16:19	208-96-8	
Anthracene	<0.010	ug/L	0.050	0.010	1	02/12/18 09:02	02/12/18 16:19	120-12-7	
Benzo(a)anthracene	<0.0073	ug/L	0.036	0.0073	1	02/12/18 09:02	02/12/18 16:19	56-55-3	
Benzo(a)pyrene	<0.010	ug/L	0.051	0.010	1	02/12/18 09:02	02/12/18 16:19	50-32-8	
Benzo(b)fluoranthene	<0.0055	ug/L	0.028	0.0055	1	02/12/18 09:02	02/12/18 16:19	205-99-2	
Benzo(g,h,i)perylene	<0.0065	ug/L	0.033	0.0065	1	02/12/18 09:02	02/12/18 16:19	191-24-2	
Benzo(k)fluoranthene	<0.0073	ug/L	0.036	0.0073	1	02/12/18 09:02	02/12/18 16:19	207-08-9	
Chrysene	<0.013	ug/L	0.063	0.013	1	02/12/18 09:02	02/12/18 16:19	218-01-9	
Dibenz(a,h)anthracene	<0.0096	ug/L	0.048	0.0096	1	02/12/18 09:02	02/12/18 16:19	53-70-3	
Fluoranthene	<0.010	ug/L	0.051	0.010	1	02/12/18 09:02	02/12/18 16:19	206-44-0	
Fluorene	<0.0077	ug/L	0.038	0.0077	1	02/12/18 09:02	02/12/18 16:19	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.085	0.017	1	02/12/18 09:02	02/12/18 16:19	193-39-5	
1-Methylnaphthalene	0.0083J	ug/L	0.028	0.0057	1	02/12/18 09:02	02/12/18 16:19	90-12-0	
2-Methylnaphthalene	0.0091J	ug/L	0.024	0.0047	1	02/12/18 09:02	02/12/18 16:19	91-57-6	
Naphthalene	<0.018	ug/L	0.088	0.018	1	02/12/18 09:02	02/12/18 16:19	91-20-3	
Phenanthrene	<0.013	ug/L	0.066	0.013	1	02/12/18 09:02	02/12/18 16:19	85-01-8	
Pyrene	0.0095J	ug/L	0.037	0.0074	1	02/12/18 09:02	02/12/18 16:19	129-00-0	B
Surrogates									
2-Fluorobiphenyl (S)	52	%	35-84		1	02/12/18 09:02	02/12/18 16:19	321-60-8	
Terphenyl-d14 (S)	76	%	10-129		1	02/12/18 09:02	02/12/18 16:19	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		02/12/18 17:57	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		02/12/18 17:57	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		02/12/18 17:57	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		02/12/18 17:57	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		02/12/18 17:57	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		02/12/18 17:57	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		02/12/18 17:57	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		02/12/18 17:57	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		02/12/18 17:57	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		02/12/18 17:57	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	95-50-1	
1,2-Dichloroethane	3.9	ug/L	1.0	0.17	1		02/12/18 17:57	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		02/12/18 17:57	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	106-46-7	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-GW-MW2-01 **Lab ID:** 40164558005 **Collected:** 02/08/18 16:05 **Received:** 02/10/18 07:40 **Matrix:** Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		02/12/18 17:57	594-20-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		02/12/18 17:57	78-93-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	95-49-8	
2-Hexanone	<1.1	ug/L	5.0	1.1	1		02/12/18 17:57	591-78-6	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		02/12/18 17:57	106-43-4	
4-Methyl-2-pentanone (MIBK)	<2.1	ug/L	5.0	2.1	1		02/12/18 17:57	108-10-1	
Acetone	<3.0	ug/L	20.0	3.0	1		02/12/18 17:57	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		02/12/18 17:57	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		02/12/18 17:57	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		02/12/18 17:57	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		02/12/18 17:57	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		02/12/18 17:57	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		02/12/18 17:57	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		02/12/18 17:57	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		02/12/18 17:57	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		02/12/18 17:57	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		02/12/18 17:57	98-82-8	
Methyl-tert-butyl ether	1.4	ug/L	1.0	0.17	1		02/12/18 17:57	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		02/12/18 17:57	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/12/18 17:57	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		02/12/18 17:57	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		02/12/18 17:57	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		02/12/18 17:57	75-69-4	
Vinyl acetate	<0.92	ug/L	5.0	0.92	1		02/12/18 17:57	108-05-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/12/18 17:57	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/12/18 17:57	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		02/12/18 17:57	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		02/12/18 17:57	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		02/12/18 17:57	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		02/12/18 17:57	98-06-6	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-GW-MW2-01 **Lab ID: 40164558005** Collected: 02/08/18 16:05 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/12/18 17:57	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		02/12/18 17:57	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	61-130		1		02/12/18 17:57	460-00-4	
Dibromofluoromethane (S)	97	%	67-130		1		02/12/18 17:57	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		02/12/18 17:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-GW-FD-02 **Lab ID: 40164558006** Collected: 02/08/18 16:10 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	02/13/18 09:50	02/22/18 14:39	7439-92-1	
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0059	ug/L	0.029	0.0059	1	02/12/18 09:02	02/12/18 16:37	83-32-9	
Acenaphthylene	<0.0048	ug/L	0.024	0.0048	1	02/12/18 09:02	02/12/18 16:37	208-96-8	
Anthracene	<0.010	ug/L	0.051	0.010	1	02/12/18 09:02	02/12/18 16:37	120-12-7	
Benzo(a)anthracene	<0.0073	ug/L	0.037	0.0073	1	02/12/18 09:02	02/12/18 16:37	56-55-3	
Benzo(a)pyrene	<0.010	ug/L	0.051	0.010	1	02/12/18 09:02	02/12/18 16:37	50-32-8	
Benzo(b)fluoranthene	<0.0056	ug/L	0.028	0.0056	1	02/12/18 09:02	02/12/18 16:37	205-99-2	
Benzo(g,h,i)perylene	<0.0066	ug/L	0.033	0.0066	1	02/12/18 09:02	02/12/18 16:37	191-24-2	
Benzo(k)fluoranthene	<0.0073	ug/L	0.037	0.0073	1	02/12/18 09:02	02/12/18 16:37	207-08-9	
Chrysene	<0.013	ug/L	0.063	0.013	1	02/12/18 09:02	02/12/18 16:37	218-01-9	
Dibenz(a,h)anthracene	<0.0097	ug/L	0.049	0.0097	1	02/12/18 09:02	02/12/18 16:37	53-70-3	
Fluoranthene	<0.010	ug/L	0.052	0.010	1	02/12/18 09:02	02/12/18 16:37	206-44-0	
Fluorene	<0.0077	ug/L	0.039	0.0077	1	02/12/18 09:02	02/12/18 16:37	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.086	0.017	1	02/12/18 09:02	02/12/18 16:37	193-39-5	
1-Methylnaphthalene	0.011J	ug/L	0.029	0.0057	1	02/12/18 09:02	02/12/18 16:37	90-12-0	
2-Methylnaphthalene	0.0084J	ug/L	0.024	0.0048	1	02/12/18 09:02	02/12/18 16:37	91-57-6	
Naphthalene	<0.018	ug/L	0.089	0.018	1	02/12/18 09:02	02/12/18 16:37	91-20-3	
Phenanthrene	<0.013	ug/L	0.067	0.013	1	02/12/18 09:02	02/12/18 16:37	85-01-8	
Pyrene	0.011J	ug/L	0.037	0.0074	1	02/12/18 09:02	02/12/18 16:37	129-00-0	B
Surrogates									
2-Fluorobiphenyl (S)	54	%	35-84		1	02/12/18 09:02	02/12/18 16:37	321-60-8	
Terphenyl-d14 (S)	74	%	10-129		1	02/12/18 09:02	02/12/18 16:37	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		02/12/18 18:19	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		02/12/18 18:19	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		02/12/18 18:19	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		02/12/18 18:19	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		02/12/18 18:19	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		02/12/18 18:19	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		02/12/18 18:19	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		02/12/18 18:19	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		02/12/18 18:19	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		02/12/18 18:19	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	95-50-1	
1,2-Dichloroethane	4.0	ug/L	1.0	0.17	1		02/12/18 18:19	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		02/12/18 18:19	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-GW-FD-02 **Lab ID: 40164558006** Collected: 02/08/18 16:10 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		02/12/18 18:19	594-20-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		02/12/18 18:19	78-93-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	95-49-8	
2-Hexanone	<1.1	ug/L	5.0	1.1	1		02/12/18 18:19	591-78-6	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		02/12/18 18:19	106-43-4	
4-Methyl-2-pentanone (MIBK)	<2.1	ug/L	5.0	2.1	1		02/12/18 18:19	108-10-1	
Acetone	<3.0	ug/L	20.0	3.0	1		02/12/18 18:19	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		02/12/18 18:19	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		02/12/18 18:19	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		02/12/18 18:19	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		02/12/18 18:19	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		02/12/18 18:19	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		02/12/18 18:19	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		02/12/18 18:19	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		02/12/18 18:19	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		02/12/18 18:19	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		02/12/18 18:19	98-82-8	
Methyl-tert-butyl ether	1.4	ug/L	1.0	0.17	1		02/12/18 18:19	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		02/12/18 18:19	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/12/18 18:19	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		02/12/18 18:19	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		02/12/18 18:19	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		02/12/18 18:19	75-69-4	
Vinyl acetate	<0.92	ug/L	5.0	0.92	1		02/12/18 18:19	108-05-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/12/18 18:19	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/12/18 18:19	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		02/12/18 18:19	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:19	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		02/12/18 18:19	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		02/12/18 18:19	98-06-6	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-GW-FD-02 **Lab ID: 40164558006** Collected: 02/08/18 16:10 Received: 02/10/18 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/12/18 18:19	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		02/12/18 18:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		02/12/18 18:19	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		02/12/18 18:19	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		02/12/18 18:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 36020 WAM
Pace Project No.: 40164558

Sample: PV-GW-MW1-01 Lab ID: **40164558007** Collected: 02/08/18 17:10 Received: 02/10/18 09:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	02/13/18 07:09	02/22/18 15:44	7439-92-1	
8270 MSSV PAH by HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	0.0062J	ug/L	0.030	0.0060	1	02/12/18 09:02	02/12/18 16:56	83-32-9	
Acenaphthylene	<0.0049	ug/L	0.025	0.0049	1	02/12/18 09:02	02/12/18 16:56	208-96-8	
Anthracene	<0.010	ug/L	0.052	0.010	1	02/12/18 09:02	02/12/18 16:56	120-12-7	
Benzo(a)anthracene	<0.0075	ug/L	0.037	0.0075	1	02/12/18 09:02	02/12/18 16:56	56-55-3	
Benzo(a)pyrene	<0.010	ug/L	0.052	0.010	1	02/12/18 09:02	02/12/18 16:56	50-32-8	
Benzo(b)fluoranthene	<0.0057	ug/L	0.028	0.0057	1	02/12/18 09:02	02/12/18 16:56	205-99-2	
Benzo(g,h,i)perylene	<0.0067	ug/L	0.034	0.0067	1	02/12/18 09:02	02/12/18 16:56	191-24-2	
Benzo(k)fluoranthene	<0.0075	ug/L	0.037	0.0075	1	02/12/18 09:02	02/12/18 16:56	207-08-9	
Chrysene	<0.013	ug/L	0.065	0.013	1	02/12/18 09:02	02/12/18 16:56	218-01-9	
Dibenz(a,h)anthracene	<0.0099	ug/L	0.050	0.0099	1	02/12/18 09:02	02/12/18 16:56	53-70-3	
Fluoranthene	<0.011	ug/L	0.053	0.011	1	02/12/18 09:02	02/12/18 16:56	206-44-0	
Fluorene	<0.0079	ug/L	0.039	0.0079	1	02/12/18 09:02	02/12/18 16:56	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.087	0.017	1	02/12/18 09:02	02/12/18 16:56	193-39-5	
1-Methylnaphthalene	0.0094J	ug/L	0.029	0.0058	1	02/12/18 09:02	02/12/18 16:56	90-12-0	
2-Methylnaphthalene	0.0076J	ug/L	0.024	0.0049	1	02/12/18 09:02	02/12/18 16:56	91-57-6	
Naphthalene	0.040J	ug/L	0.091	0.018	1	02/12/18 09:02	02/12/18 16:56	91-20-3	
Phenanthrene	<0.014	ug/L	0.068	0.014	1	02/12/18 09:02	02/12/18 16:56	85-01-8	
Pyrene	0.011J	ug/L	0.038	0.0076	1	02/12/18 09:02	02/12/18 16:56	129-00-0	B
Surrogates									
2-Fluorobiphenyl (S)	57	%	35-84		1	02/12/18 09:02	02/12/18 16:56	321-60-8	
Terphenyl-d14 (S)	72	%	10-129		1	02/12/18 09:02	02/12/18 16:56	1718-51-0	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		02/12/18 18:41	630-20-6	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		02/12/18 18:41	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		02/12/18 18:41	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		02/12/18 18:41	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		02/12/18 18:41	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		02/12/18 18:41	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		02/12/18 18:41	87-61-6	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	96-18-4	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		02/12/18 18:41	120-82-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	95-63-6	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		02/12/18 18:41	96-12-8	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		02/12/18 18:41	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	95-50-1	
1,2-Dichloroethane	4.8	ug/L	1.0	0.17	1		02/12/18 18:41	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		02/12/18 18:41	78-87-5	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	108-67-8	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	541-73-1	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	142-28-9	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	106-46-7	

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-GW-MW1-01 Lab ID: 40164558007 Collected: 02/08/18 17:10 Received: 02/10/18 09:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		02/12/18 18:41	594-20-7	
2-Butanone (MEK)	<3.0	ug/L	20.0	3.0	1		02/12/18 18:41	78-93-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	95-49-8	
2-Hexanone	<1.1	ug/L	5.0	1.1	1		02/12/18 18:41	591-78-6	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		02/12/18 18:41	106-43-4	
4-Methyl-2-pentanone (MIBK)	<2.1	ug/L	5.0	2.1	1		02/12/18 18:41	108-10-1	
Acetone	<3.0	ug/L	20.0	3.0	1		02/12/18 18:41	67-64-1	
Benzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		02/12/18 18:41	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		02/12/18 18:41	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		02/12/18 18:41	74-83-9	
Carbon disulfide	<0.61	ug/L	5.0	0.61	1		02/12/18 18:41	75-15-0	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		02/12/18 18:41	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		02/12/18 18:41	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	124-48-1	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		02/12/18 18:41	74-95-3	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		02/12/18 18:41	75-71-8	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		02/12/18 18:41	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		02/12/18 18:41	98-82-8	
Methyl-tert-butyl ether	1.4	ug/L	1.0	0.17	1		02/12/18 18:41	1634-04-4	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		02/12/18 18:41	75-09-2	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/12/18 18:41	91-20-3	
Styrene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	100-42-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		02/12/18 18:41	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		02/12/18 18:41	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		02/12/18 18:41	75-69-4	
Vinyl acetate	<0.92	ug/L	5.0	0.92	1		02/12/18 18:41	108-05-4	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/12/18 18:41	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/12/18 18:41	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	10061-01-5	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		02/12/18 18:41	179601-23-1	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	104-51-8	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	103-65-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	95-47-6	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		02/12/18 18:41	99-87-6	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		02/12/18 18:41	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		02/12/18 18:41	98-06-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 36020 WAM

Pace Project No.: 40164558

Sample: PV-GW-MW1-01 **Lab ID: 40164558007** Collected: 02/08/18 17:10 Received: 02/10/18 09:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/12/18 18:41	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		02/12/18 18:41	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	61-130		1		02/12/18 18:41	460-00-4	
Dibromofluoromethane (S)	97	%	67-130		1		02/12/18 18:41	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		02/12/18 18:41	2037-26-5	

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QUALITY CONTROL DATA

Project: 36020 WAM
Pace Project No.: 40164558

QC Batch: 281037 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 40164558002, 40164558003, 40164558004, 40164558005, 40164558006, 40164558007

METHOD BLANK: 1647933 Matrix: Water
Associated Lab Samples: 40164558002, 40164558003, 40164558004, 40164558005, 40164558006, 40164558007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	0.24J	1.0	02/22/18 14:20	

LABORATORY CONTROL SAMPLE: 1647934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	486	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1648018 1648019

Parameter	Units	40164558006 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Lead, Dissolved	ug/L	<0.20	500	487	500	458	97	92	75-125	6	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 36020 WAM
Pace Project No.: 40164558

QC Batch: 280971 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40164558001, 40164558002, 40164558003, 40164558004, 40164558005, 40164558006, 40164558007

METHOD BLANK: 1647771 Matrix: Water
Associated Lab Samples: 40164558001, 40164558002, 40164558003, 40164558004, 40164558005, 40164558006, 40164558007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	02/12/18 11:36	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	02/12/18 11:36	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	02/12/18 11:36	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	02/12/18 11:36	
1,1-Dichloroethane	ug/L	<0.24	1.0	02/12/18 11:36	
1,1-Dichloroethene	ug/L	<0.41	1.0	02/12/18 11:36	
1,1-Dichloropropene	ug/L	<0.44	1.0	02/12/18 11:36	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	02/12/18 11:36	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	02/12/18 11:36	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	02/12/18 11:36	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	02/12/18 11:36	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	02/12/18 11:36	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	02/12/18 11:36	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	02/12/18 11:36	
1,2-Dichloroethane	ug/L	<0.17	1.0	02/12/18 11:36	
1,2-Dichloropropane	ug/L	<0.23	1.0	02/12/18 11:36	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	02/12/18 11:36	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	02/12/18 11:36	
1,3-Dichloropropane	ug/L	<0.50	1.0	02/12/18 11:36	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	02/12/18 11:36	
2,2-Dichloropropane	ug/L	<0.48	1.0	02/12/18 11:36	
2-Butanone (MEK)	ug/L	<3.0	20.0	02/12/18 11:36	
2-Chlorotoluene	ug/L	<0.50	1.0	02/12/18 11:36	
2-Hexanone	ug/L	<1.1	5.0	02/12/18 11:36	
4-Chlorotoluene	ug/L	<0.21	1.0	02/12/18 11:36	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.1	5.0	02/12/18 11:36	
Acetone	ug/L	<3.0	20.0	02/12/18 11:36	
Benzene	ug/L	<0.50	1.0	02/12/18 11:36	
Bromobenzene	ug/L	<0.23	1.0	02/12/18 11:36	
Bromochloromethane	ug/L	<0.34	1.0	02/12/18 11:36	
Bromodichloromethane	ug/L	<0.50	1.0	02/12/18 11:36	
Bromoform	ug/L	<0.50	1.0	02/12/18 11:36	
Bromomethane	ug/L	<2.4	5.0	02/12/18 11:36	
Carbon disulfide	ug/L	<0.61	5.0	02/12/18 11:36	
Carbon tetrachloride	ug/L	<0.50	1.0	02/12/18 11:36	
Chlorobenzene	ug/L	<0.50	1.0	02/12/18 11:36	
Chloroethane	ug/L	<0.37	1.0	02/12/18 11:36	
Chloroform	ug/L	<2.5	5.0	02/12/18 11:36	
Chloromethane	ug/L	<0.50	1.0	02/12/18 11:36	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	02/12/18 11:36	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	02/12/18 11:36	

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40164558

METHOD BLANK: 1647771

Matrix: Water

Associated Lab Samples: 40164558001, 40164558002, 40164558003, 40164558004, 40164558005, 40164558006, 40164558007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<0.50	1.0	02/12/18 11:36	
Dibromomethane	ug/L	<0.43	1.0	02/12/18 11:36	
Dichlorodifluoromethane	ug/L	<0.22	1.0	02/12/18 11:36	
Diisopropyl ether	ug/L	<0.50	1.0	02/12/18 11:36	
Ethylbenzene	ug/L	<0.50	1.0	02/12/18 11:36	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	02/12/18 11:36	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	02/12/18 11:36	
m&p-Xylene	ug/L	<1.0	2.0	02/12/18 11:36	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	02/12/18 11:36	
Methylene Chloride	ug/L	<0.23	1.0	02/12/18 11:36	
n-Butylbenzene	ug/L	<0.50	1.0	02/12/18 11:36	
n-Propylbenzene	ug/L	<0.50	1.0	02/12/18 11:36	
Naphthalene	ug/L	<2.5	5.0	02/12/18 11:36	
o-Xylene	ug/L	<0.50	1.0	02/12/18 11:36	
p-Isopropyltoluene	ug/L	<0.50	1.0	02/12/18 11:36	
sec-Butylbenzene	ug/L	<2.2	5.0	02/12/18 11:36	
Styrene	ug/L	<0.50	1.0	02/12/18 11:36	
tert-Butylbenzene	ug/L	<0.18	1.0	02/12/18 11:36	
Tetrachloroethene	ug/L	<0.50	1.0	02/12/18 11:36	
Tetrahydrofuran	ug/L	<2.0	5.0	02/12/18 11:36	
Toluene	ug/L	<0.50	1.0	02/12/18 11:36	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	02/12/18 11:36	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	02/12/18 11:36	
Trichloroethene	ug/L	<0.33	1.0	02/12/18 11:36	
Trichlorofluoromethane	ug/L	<0.18	1.0	02/12/18 11:36	
Vinyl acetate	ug/L	<0.92	5.0	02/12/18 11:36	
Vinyl chloride	ug/L	<0.18	1.0	02/12/18 11:36	
4-Bromofluorobenzene (S)	%	95	61-130	02/12/18 11:36	
Dibromofluoromethane (S)	%	93	67-130	02/12/18 11:36	
Toluene-d8 (S)	%	91	70-130	02/12/18 11:36	

LABORATORY CONTROL SAMPLE: 1647772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.9	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	44.8	90	70-130	
1,1,2-Trichloroethane	ug/L	50	52.0	104	70-130	
1,1-Dichloroethane	ug/L	50	52.7	105	71-132	
1,1-Dichloroethene	ug/L	50	50.9	102	75-130	
1,2,4-Trichlorobenzene	ug/L	50	52.6	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	39.6	79	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	70-130	
1,2-Dichlorobenzene	ug/L	50	51.2	102	70-130	
1,2-Dichloroethane	ug/L	50	50.7	101	70-131	

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40164558

LABORATORY CONTROL SAMPLE: 1647772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	54.9	110	80-120	
1,3-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
Benzene	ug/L	50	52.2	104	73-145	
Bromodichloromethane	ug/L	50	53.8	108	70-130	
Bromoform	ug/L	50	54.6	109	67-130	
Bromomethane	ug/L	50	35.0	70	26-128	
Carbon disulfide	ug/L	50	56.5	113	72-156	
Carbon tetrachloride	ug/L	50	55.7	111	70-133	
Chlorobenzene	ug/L	50	56.2	112	70-130	
Chloroethane	ug/L	50	50.0	100	58-120	
Chloroform	ug/L	50	51.4	103	80-121	
Chloromethane	ug/L	50	34.9	70	40-127	
cis-1,2-Dichloroethene	ug/L	50	50.0	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.7	107	70-130	
Dibromochloromethane	ug/L	50	53.0	106	70-130	
Dichlorodifluoromethane	ug/L	50	37.1	74	20-135	
Ethylbenzene	ug/L	50	56.6	113	87-129	
Isopropylbenzene (Cumene)	ug/L	50	52.5	105	70-130	
m&p-Xylene	ug/L	100	119	119	70-130	
Methyl-tert-butyl ether	ug/L	50	46.1	92	66-143	
Methylene Chloride	ug/L	50	48.8	98	70-130	
o-Xylene	ug/L	50	56.9	114	70-130	
Styrene	ug/L	50	50.0	100	70-130	
Tetrachloroethene	ug/L	50	61.0	122	70-130	
Toluene	ug/L	50	55.1	110	82-130	
trans-1,2-Dichloroethene	ug/L	50	51.3	103	75-132	
trans-1,3-Dichloropropene	ug/L	50	54.8	110	70-130	
Trichloroethene	ug/L	50	57.9	116	70-130	
Trichlorofluoromethane	ug/L	50	51.1	102	76-133	
Vinyl chloride	ug/L	50	45.1	90	57-136	
4-Bromofluorobenzene (S)	%			103	61-130	
Dibromofluoromethane (S)	%			96	67-130	
Toluene-d8 (S)	%			92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1647773 1647774

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40164537001 Result	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/L	<0.50	50	50	51.4	49.1	103	98	70-134	5	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	46.5	45.0	93	90	70-130	3	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	52.4	50.7	105	101	70-130	3	20		
1,1-Dichloroethane	ug/L	<0.24	50	50	51.3	49.7	103	99	71-133	3	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	49.1	46.6	98	93	75-136	5	20		
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	54.3	51.5	108	103	70-130	5	20		

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40164558

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1647773 1647774											
Parameter	Units	MS		MSD		MS	MSD	MS	MSD	% Rec	Max
		40164537001	Spike	Spike	MS						
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	42.5	42.1	85	84	63-123	1	20
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.4	50.2	105	100	70-130	4	20
1,2-Dichlorobenzene	ug/L	<0.50	50	50	51.4	49.6	103	99	70-130	3	20
1,2-Dichloroethane	ug/L	<0.17	50	50	50.1	48.4	100	97	70-131	3	20
1,2-Dichloropropane	ug/L	<0.23	50	50	55.0	52.9	110	106	80-120	4	20
1,3-Dichlorobenzene	ug/L	<0.50	50	50	51.5	50.1	103	100	70-130	3	20
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.3	48.6	100	97	70-130	3	20
Benzene	ug/L	<0.50	50	50	51.4	49.1	103	98	73-145	5	20
Bromodichloromethane	ug/L	<0.50	50	50	53.7	52.5	107	105	70-130	2	20
Bromoform	ug/L	<0.50	50	50	56.1	54.0	112	108	67-130	4	20
Bromomethane	ug/L	<2.4	50	50	36.2	35.9	72	72	26-129	1	20
Carbon disulfide	ug/L	<0.61	50	50	54.3	52.4	108	104	72-156	4	30
Carbon tetrachloride	ug/L	<0.50	50	50	53.4	51.4	107	103	70-134	4	20
Chlorobenzene	ug/L	<0.50	50	50	55.0	53.6	110	107	70-130	3	20
Chloroethane	ug/L	<0.37	50	50	48.4	47.1	97	94	58-120	3	20
Chloroform	ug/L	<2.5	50	50	50.3	48.4	101	97	80-121	4	20
Chloromethane	ug/L	<0.50	50	50	33.1	32.2	66	64	40-128	3	20
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	48.6	46.7	97	93	70-130	4	20
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	54.1	52.5	108	105	70-130	3	20
Dibromochloromethane	ug/L	<0.50	50	50	53.3	52.0	107	104	70-130	2	20
Dichlorodifluoromethane	ug/L	<0.22	50	50	32.6	31.0	65	62	20-146	5	20
Ethylbenzene	ug/L	<0.50	50	50	55.2	53.9	110	108	87-129	2	20
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	51.1	50.3	102	101	70-130	2	20
m&p-Xylene	ug/L	<1.0	100	100	116	113	116	113	70-130	3	20
Methyl-tert-butyl ether	ug/L	<0.17	50	50	46.5	44.8	93	90	66-143	4	20
Methylene Chloride	ug/L	<0.23	50	50	47.8	45.8	96	92	70-130	4	20
o-Xylene	ug/L	<0.50	50	50	56.0	54.8	112	110	70-130	2	20
Styrene	ug/L	<0.50	50	50	49.2	49.2	98	98	70-130	0	20
Tetrachloroethene	ug/L	3.3	50	50	62.7	59.9	119	113	70-130	5	20
Toluene	ug/L	<0.50	50	50	53.6	52.3	107	105	82-131	3	20
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	50.3	48.4	101	97	75-135	4	20
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	54.9	53.7	110	107	70-130	2	20
Trichloroethene	ug/L	0.57J	50	50	57.3	55.5	114	110	70-130	3	20
Trichlorofluoromethane	ug/L	<0.18	50	50	48.1	46.0	96	92	76-150	4	20
Vinyl chloride	ug/L	<0.18	50	50	42.0	40.4	84	81	56-143	4	20
4-Bromofluorobenzene (S)	%						102	103	61-130		
Dibromofluoromethane (S)	%						94	94	67-130		
Toluene-d8 (S)	%						92	91	70-130		

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QUALITY CONTROL DATA

Project: 36020 WAM
Pace Project No.: 40164558

QC Batch: 280972 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40164558002, 40164558003, 40164558004, 40164558005, 40164558006, 40164558007

METHOD BLANK: 1647775 Matrix: Water
Associated Lab Samples: 40164558002, 40164558003, 40164558004, 40164558005, 40164558006, 40164558007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	02/12/18 11:26	
2-Methylnaphthalene	ug/L	<0.0049	0.024	02/12/18 11:26	
Acenaphthene	ug/L	<0.0061	0.030	02/12/18 11:26	
Acenaphthylene	ug/L	<0.0050	0.025	02/12/18 11:26	
Anthracene	ug/L	<0.010	0.052	02/12/18 11:26	
Benzo(a)anthracene	ug/L	<0.0076	0.038	02/12/18 11:26	
Benzo(a)pyrene	ug/L	<0.011	0.053	02/12/18 11:26	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	02/12/18 11:26	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	02/12/18 11:26	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	02/12/18 11:26	
Chrysene	ug/L	<0.013	0.065	02/12/18 11:26	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	02/12/18 11:26	
Fluoranthene	ug/L	<0.011	0.053	02/12/18 11:26	
Fluorene	ug/L	<0.0080	0.040	02/12/18 11:26	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	02/12/18 11:26	
Naphthalene	ug/L	<0.018	0.092	02/12/18 11:26	
Phenanthrene	ug/L	<0.014	0.069	02/12/18 11:26	
Pyrene	ug/L	0.012J	0.038	02/12/18 11:26	
2-Fluorobiphenyl (S)	%	53	35-84	02/12/18 11:26	
Terphenyl-d14 (S)	%	84	10-129	02/12/18 11:26	

LABORATORY CONTROL SAMPLE & LCSD: 1647776

1647777

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.2	1.2	62	59	39-83	5	29	
2-Methylnaphthalene	ug/L	2	1.2	1.2	62	58	38-86	6	32	
Acenaphthene	ug/L	2	1.3	1.2	66	62	35-85	6	27	
Acenaphthylene	ug/L	2	1.4	1.3	70	65	31-88	7	29	
Anthracene	ug/L	2	1.7	1.7	85	85	47-104	0	25	
Benzo(a)anthracene	ug/L	2	1.7	1.7	83	85	36-105	2	20	
Benzo(a)pyrene	ug/L	2	1.7	1.7	83	87	69-117	4	20	
Benzo(b)fluoranthene	ug/L	2	1.6	1.6	80	79	54-107	2	22	
Benzo(g,h,i)perylene	ug/L	2	0.90	0.98	45	49	13-86	8	33	
Benzo(k)fluoranthene	ug/L	2	1.6	1.5	78	75	63-128	3	20	
Chrysene	ug/L	2	1.9	1.9	93	95	69-150	3	20	
Dibenz(a,h)anthracene	ug/L	2	0.79	0.88	40	44	10-87	10	37	
Fluoranthene	ug/L	2	1.9	2.0	97	99	57-103	2	20	
Fluorene	ug/L	2	1.5	1.4	75	70	38-85	6	28	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.5	1.6	77	82	40-111	5	22	
Naphthalene	ug/L	2	1.2	1.1	58	56	39-82	4	28	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 36020 WAM

Pace Project No.: 40164558

LABORATORY CONTROL SAMPLE & LCSD: 1647776		1647777								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Phenanthrene	ug/L	2	1.6	1.6	78	79	46-96	2	25	
Pyrene	ug/L	2	1.7	1.8	87	89	57-110	2	20	
2-Fluorobiphenyl (S)	%				63	56	35-84			
Terphenyl-d14 (S)	%				85	86	10-129			

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 36020 WAM
Pace Project No.: 40164558

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

BATCH QUALIFIERS

Batch: 281011

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 36020 WAM
Pace Project No.: 40164558

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40164558002	PV-GW-FB	EPA 3010	281037	EPA 6020	281134
40164558003	PV-GW-MW3-01	EPA 3010	281037	EPA 6020	281134
40164558004	PV-GW-MW4-01	EPA 3010	281037	EPA 6020	281134
40164558005	PV-GW-MW2-01	EPA 3010	281037	EPA 6020	281134
40164558006	PV-GW-FD-02	EPA 3010	281037	EPA 6020	281134
40164558007	PV-GW-MW1-01	EPA 3010	281037	EPA 6020	281134
40164558002	PV-GW-FB	EPA 3510	280972	EPA 8270 by HVI	281011
40164558003	PV-GW-MW3-01	EPA 3510	280972	EPA 8270 by HVI	281011
40164558004	PV-GW-MW4-01	EPA 3510	280972	EPA 8270 by HVI	281011
40164558005	PV-GW-MW2-01	EPA 3510	280972	EPA 8270 by HVI	281011
40164558006	PV-GW-FD-02	EPA 3510	280972	EPA 8270 by HVI	281011
40164558007	PV-GW-MW1-01	EPA 3510	280972	EPA 8270 by HVI	281011
40164558001	PV-TB-04	EPA 8260	280971		
40164558002	PV-GW-FB	EPA 8260	280971		
40164558003	PV-GW-MW3-01	EPA 8260	280971		
40164558004	PV-GW-MW4-01	EPA 8260	280971		
40164558005	PV-GW-MW2-01	EPA 8260	280971		
40164558006	PV-GW-FD-02	EPA 8260	280971		
40164558007	PV-GW-MW1-01	EPA 8260	280971		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **Ramaker & Associates Inc.**
 Branch/Location: **Sauk City WI**
 Project Contact: **Jodie Peotter**
 Phone: **608 643 4100**
 Project Number: **36020**
 Project Name: **36020 WAM**
 Project State: **Wisconsin**
 Sampled By (Print): **Ben Christianson**
 Sampled By (Sign): *Ben Christianson*
 PO #:



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

Page 1 of 1
 40164558
 Page 35 of 37

CHAIN OF CUSTODY

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

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

Y/N	N	N	Y							
Pick Letter	B	A	D							
Analyses Requested	VOC	PAH	Lead (dissolved)							

Quote #: **40164558**
 Mail To Contact: **Jodie Peotter**
 Mail To Company: **Ramaker & Associates**
 Mail To Address: **855 Community Dr. Sauk City, WI 53583**
 Invoice To Contact: **same**
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone: **608 643 4100**
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

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		MATRIX	Y/N	N	N	Y
		DATE	TIME					
001	PV-TB-04	2-8-18		W	X			
002	PV-GW-FB	2-8-18	11:50	W	X	X	X	
003	PV-GW-MW3-01	2-8-18	13:16	GW	X	X	X	
004	PV-GW-MW4-01	2-8-18	14:45	GW	X	X	X	
005	PV-GW-MW2-01	2-8-18	16:05	GW	X	X	X	
006	PV-GW-FD-02	2-8-18	16:10	GW	X	X	X	
007	PV-GW-MW1-01	2-8-18	17:10	GW	X	X	X	

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1: **JPEOTTER@RAMAKER.COM**
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *Ben Peotter* Date/Time: **2/9/18 10:00**
 Relinquished By: *CS Logistics* Date/Time: **2/10/18 0740**
 Relinquished By:
 Relinquished By:
 Relinquished By:

Received By: **Courier** Date/Time: **2-9-18**
 Received By: *Patrick Moran* Date/Time: **2/10/18 0740**
 Received By:
 Received By:
 Received By:

PACE Project No. **40164558**
 Receipt Temp = **RO1** °C
 Sample Receipt pH **OKY** Adjusted
 Cooler Custody Seal **Present / Not Present**
Intact / Not Intact

Sample Preservation Receipt Form

Client Name: Ramaker

Project # 40164558

All containers needing preservation have been checked and noted below: Yes No N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed: [Signature]

Date/Time:

Pace Lab #	Glass							Plastic							Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)		
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T								ZPLC	GN
001																	2																2.5 / 5 / 10
002				2	2												3															2.5 / 5 / 10	
003				2	2												3															2.5 / 5 / 10	
004				2	2												3															2.5 / 5 / 10	
005				2	2												2															2.5 / 5 / 10	
006				2	2	2/10/18											2															2.5 / 5 / 10	
007				2	2												3															2.5 / 5 / 10	
008																																2.5 / 5 / 10	
009																																2.5 / 5 / 10	
010																																2.5 / 5 / 10	
011																																2.5 / 5 / 10	
012																																2.5 / 5 / 10	
013																																2.5 / 5 / 10	
014																																2.5 / 5 / 10	
015																																2.5 / 5 / 10	
016																																2.5 / 5 / 10	
017																																2.5 / 5 / 10	
018																																2.5 / 5 / 10	
019																																2.5 / 5 / 10	
020																																2.5 / 5 / 10	

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Ramaker

WO#: 40164558

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: 336.020918

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

Cooler Temperature Uncorr: _____ /Corr: ROI

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
Date: 2/10/18
Initials: [Signature]

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	MS/MSD <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis	Matrix: <u>W</u>	
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	<u>394</u>	

Client Notification/ Resolution: If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: AL for DM Date: 2/10/18