From:	Dombrowski, Frank J <frank.dombrowski@wecenergygroup.com>
Sent:	Friday, May 14, 2021 9:41 AM
To:	gielniewski.margaret@epa.gov
Cc:	Marcus D Byker; Fitzpatrick, William - DNR; DNR RR NER; Korpela, Adrienne/MKE; Krueger, Sarah E - DNR
Subject:	WPSC Marinette Former MGP - Apr. 2021 Monthly Progress Report (CERCLA Docket No V-W-18-C-009)
Attachments:	2021-05-14 WPSC-USEPA April 2021 WPSC Marinette Monthly Progress Report.pdf

Hi Margaret,

Please find attached the April 2021 monthly progress report for the WPSC Marinette, WI Former MGP Site.

As always, please contact me if you have any questions or if additional information may be needed.

Thank you,

Frank Dombrowski
Principal Environmental Consultant

WEC Energy Group – Business Services
Environmental Dept. - Land Quality Group
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Serving WEC Energy Group, We Energies, Wisconsin Public Service, Michigan Gas Utilities, Minnesota Energy Resources, Peoples Gas and North Shore Gas

Wisconsin Public Service Corporation
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.wisconsinpublicservice.com

May 14, 2021

Ms. Margaret Gielniewski
Remedial Project Manager
United States Environmental Protection Agency
77 W. Jackson Blvd.
Chicago, Illinois 60604-3590

RE: April 2021 Monthly Progress Report
Marinette Former Manufactured Gas Plant
Marinette, Wisconsin
Wisconsin Public Service Corporation
CERCLA Docket No V-W-18-C-009, Site Spill ID – B5BT,
CERCLIS ID – WIN000509952

Dear Ms. Gielniewski:

Wisconsin Public Service Corporation (WPSC) is providing this monthly progress report for the WPSC Marinette Former Manufactured Gas Plant (MGP) Site.

1) PROGRESS MADE DURING THE PAST MONTH

- Prepared and submitted March 2021 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by April 15, 2021.
- Commenced procurement for investigation on Fincantieri Marinette Marine, pending access
- Completed semi-annual groundwater sampling between April 13 and April 14, 2021.

2) ANALYTICAL AND OTHER TESTING RESULTS RECEIVED

- Received laboratory data packages from April groundwater sampling event. Data is attached to this monthly progress report.

3) PROJECTED WORK

WPSC Actions

- Submit monthly progress report to USEPA by the 15th of the month.
- Continue access negotiations with Fincantieri Marinette Marine.

USEPA Actions

- Review Treatability Study Work Plan

4) PROBLEMS OR POTENTIAL PROBLEMS ENCOUNTERED

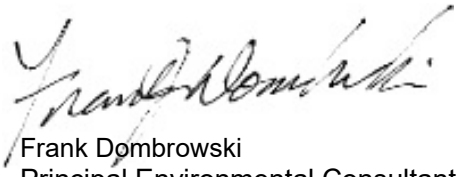
- None

5) ACTUAL OR PLANNED RESOLUTION OF PROBLEMS OR POTENTIAL PROBLEMS

- None

If you have any questions, please don't hesitate to contact me at (414) 221-2156 or via email at frank.dombrowski@wecenergygroup.com.

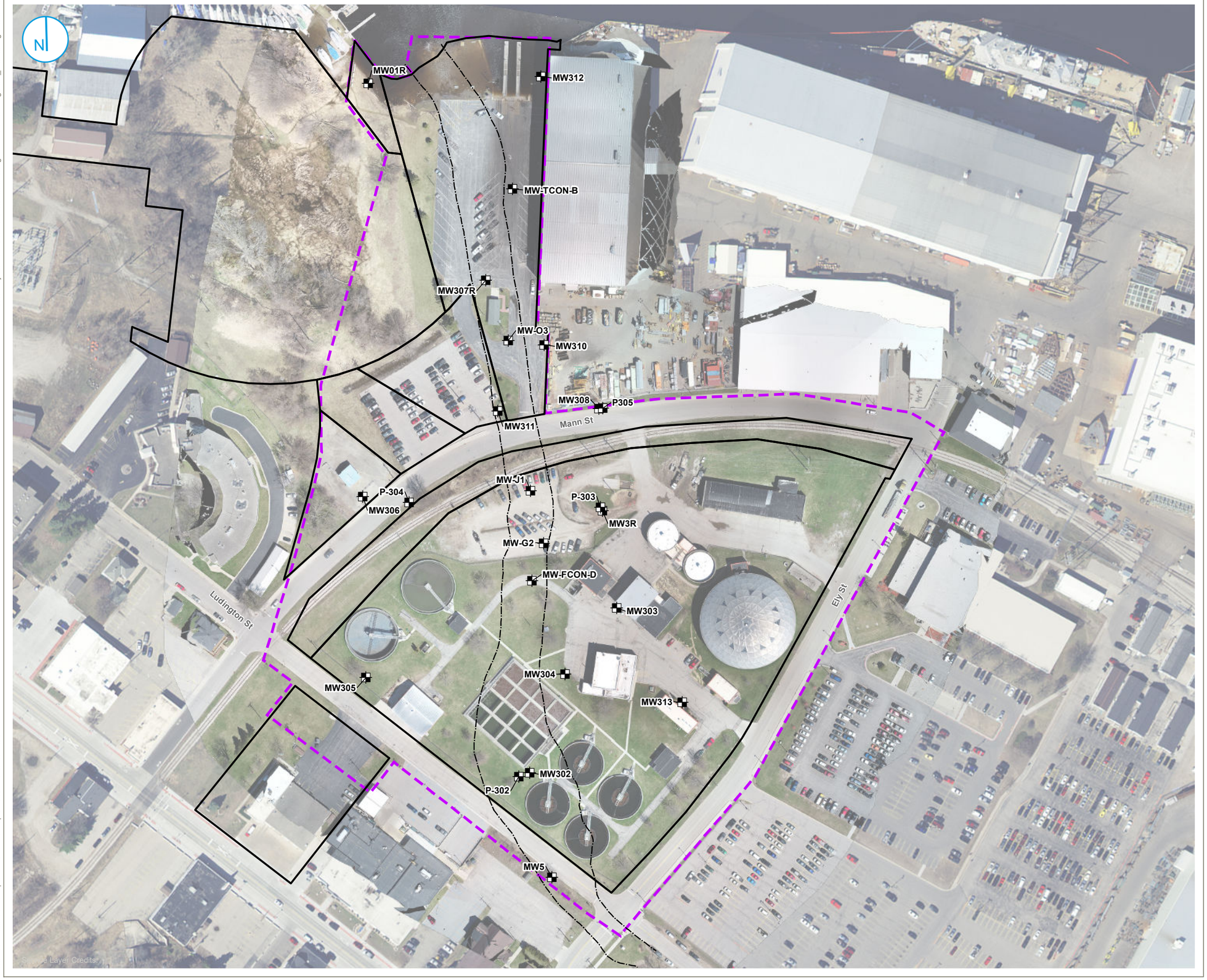
Sincerely,



Frank Dombrowski
Principal Environmental Consultant
WEC Business Services – Environmental Dept.

Enclosures:
Figure 1 – Monitoring Wells
Table 1 – April 2021 Groundwater Analytical Results Compared to the Groundwater Standard, Tap Water Criteria, and WI PAL
Marinette MGP Groundwater Level IV Data Package (on SharePoint)
Marinette MGP April 2021 SharePoint Link

For distribution to:
Ms. Sarah Krueger, WDNR (via US Mail and email)
Mr. William Fitzpatrick, WDNR (via US Mail and email)
Mr. Colin Schmenk, WDNR (via email)
WDNR Northeast Region (via email to DNRRRNER@wisconsin.gov)
Ms. Adrienne Korpela, Jacobs (via email)
Mr. Marcus Byker, Ramboll (via email)



EXISTING MONITORING WELL LOCATION

FORMER SLOUGH/ LOG RUN

PARCEL BOUNDARY (MARINETTE COUNTY, ACCESSED 7/16/2018)

APPROXIMATE EXTENT OF UPLAND SITE

0 75 150
Feet

MONITORING WELLS

WPSC MARINETTE FORMER MGP SITE
MARINETTE, WISCONSIN

FIGURE 1

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL

Table 1. Groundwater Analytical Results Compared to the Groundwater Standard, Tap Water Criteria, and WI PAL

Monthly Progress Report - April 2021 Sample Results
Wisconsin Public Service Corporation
Marinette Former MGP
Marinette, Wisconsin
BRRTS# 0238000047 CERCLIS ID: WIN000509952

9-Digit Code	Sample Location	Sample Date	BTEX	BTEX	BTEX	BTEX	BTEX	BTEX	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal
			Benzene	Ethylbenzene	Toluene	Xylene, o	Xylenes, m + p	Xylenes, Total	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Aluminum, Dissolved	Antimony, Dissolved	Copper, Dissolved	Iron, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Silver, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
Reporting Units:			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag
WI Groundwater SL:			**5**	**700**	**800**	**NS**	**NS**	**2,000**	**3,000**	**0.2**	**0.2**	**NS**	**0.2**	**400**	**400**	**100**	**3,000**	**250**	**200**	**6**	**1,300**	**NS**	**300**	**100**	**50**	**30**	**NS**
WI Groundwater PAL:			0.5	140	160	NS	NS	400	600	0.02	0.02	NS	0.02	80	80	10	NS	50	40	1.2	130	150	60	20	10	6	2,500
Tap Water RSL:			*0.46*	*1.5*	*1,100*	*190*	*190*	*190*	*1,800*	*0.025*	*0.25*	*120*	*25*	*800*	*290*	*0.12*	*1,800*	*120*	*20,000*	*7.8*	*800*	*14,000*	*430*	*390*	*94*	*86*	*6,000*
041421020	MW01R	04/14/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.011 U	0.011 U	0.0060 U	0.0071 U	0.014 U	0.011 U	0.0084 U	0.019 U	0.015 U	0.0081 U	117 U	0.30 U	3.8 U	9,430	***854***	1.2 J	0.25 U	0.71 J	20.7 U
041421012	MW03R	04/14/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.033 J	*0.059*	0.088	0.044	0.075	0.10	0.0086 U	0.020 U	0.020 J	0.098	117 U	1.1 J	9.2 J	116 U	172	3.1	0.25 U	1.3 J	49.1 J
041321007	MW05	04/13/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.011 U	0.012 U	0.0063 U	0.0075 U	0.014 U	0.012 U	0.0088 U	0.020 U	0.015 U	0.0084 U	117 U	0.30 U	3.8 U	116 U	131	2.6	0.25 U	0.63 U	20.7 U
041321002	MW302	04/13/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.63	***2.0***	***2.1***	1.3	**1.7**	1.9	0.066	*0.13*	0.26	1.7	117 U	0.30 U	4.0 J	116 U	2.4 U	1.3 J	0.25 U	0.63 U	22.2 J
041321005	MW303	04/13/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.021 J	0.011 U	0.0062 U	0.0074 U	0.014 U	0.012 U	0.0087 U	0.020 U	0.015 U	0.015 J	117 U	0.32 J	4.9 J	3,670	***1,030***	7.5	0.25 U	1.4 J	20.7 U
041321004	MW304	04/13/2021	***16.6***	*3.0*	1.2	1.2	1.9 J	3.1	0.036 J	0.012 U	0.0067 J	0.0075 U	0.014 U	0.032 J	0.079	*1.4*	0.016 J	0.022 J	117 U	1.4 J	3.8 U	3,010	***1,830***	3.1	0.27 J	3.7	20.7 U
041321001	MW305	04/13/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.011 U	0.012 U	0.0072 J	0.0075 U	0.014 U	0.012 U	0.0088 U	0.020 U	0.015 U	0.0084 U	117 U	0.30 U	3.8 U	116 U	2.4 U	0.58 J	0.25 U	0.63 U	20.7 U
041421015	MW306	04/13/2021	0.59 U	*18.7*	0.58 U	64.6	71.8	136	0.55 U	0.55 U	0.30 U	0.36 U	0.69 U	0.56 U	0.42 U	***177***	0.73 U	0.40 U	117 U	0.30 U	3.8 U	*48,700*	***1,720***	0.97 J	0.25 U	3.8	20.7 U
041421021	MW307R	04/14/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.011 U	0.011 U	0.0060 U	0.0071 U	0.014 U	0.011 U	0.0083 U	0.019 U	0.014 U	0.0080 U	117 U	0.30 U	3.8 U	*19,100*	230	1.8 J	0.25 U	0.63 U	20.7 U
041321008/041321009 (N)	MW308	04/13/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.011 U	0.011 U	0.0062 U	0.0073 U	0.014 U	0.011 U	0.0086 U	0.020 U	0.015 U	0.0082 U	117 U	0.30 U	10.3 J	1,530	***2,710***	13.7	0.25 U	0.63 U	135
041421018	MW310	04/14/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.023 J	0.011 U	0.0059 U	0.0070 U	0.013 U	0.046 J	0.061	0.086 J	0.014 U	0.046	117 U	0.30 U	8.0 J	9,030	***1,170***	11.1	0.25 U	0.81 J	20.7 U
041421016/041421017 (N)	MW311	04/14/2021	***69.5***	*59.2*	4.7	38.7	12.3	50.0	3.4 J	1.1 U	0.60 U	0.71 U	1.4 U	2.4 J	19.6	***393***	21.7	2.7 J	117 U	0.30 U	3.8 U	*37,800*	***643***	2.1	0.25 U	1.3 J	20.7 U
041421019	MW312	04/14/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.028 J	0.011 U	0.0078 J	0.0072 U	0.014 U	0.057	0.11	0.030 J	0.12	0.058	117 U	0.30 U	3.8 U	*26,900*	***1,090***	0.97 J	0.25 U	0.63 U	20.7 U
041321006	MW313	04/13/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.016 J	0.012 U	0.013 J	0.0091 J	0.014 U	0.019 J	0.025 J	0.041 J	0.015 U	0.014 J	117 U	0.30 U	3.8 U	*16,300*	***1,130***	4.1	0.25 U	2.1	20.7 U
041421024	MWFCOND	04/14/2021	***340***	*90.9*	--	--	--	--	--	1.2 U	0.68 U	--	1.5 U	--	--	***557***	--	--	--	--	--	--	--	--	--	--	--
041421026/041421027 (N)	MWG2	04/14/2021	***546***	*441*	--	--	--	--	--	***0.48*** J	***0.50***	--	**0.82**	--	--	***354***	--	--	--	--	--	--	--	--	--	--	--
041421025	MWJ1	04/14/2021	***4,520***	*312*	--	--	--	--	--	10.4 U	5.7 U	--	12.9 U	--	--	***3,360***	--	--	--	--	--	--	--	--	--	--	--
041421023	MWO3	04/14/2021	***165***	*161*	--	--	--	--	--	1.2 U	0.66 U	--	1.5 U	--	--	***461***	--	--	--	--	--	--	--	--	--	--	--
041421022	MWTCONB	04/14/2021	0.30 U	0.33 U	--	--	--	--	--	0.012 U	0.0091 J	--	0.015 U	--	--	0.021 U	--	--	--	--	--	--	--	--	--	--	--
041321003	P302	04/13/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.011 U	0.011 U	0.0062 U	0.0074 U	0.014 U	0.012 U	0.0087 U	0.020 U	0.015 U	0.0083 U	117 U	0.30 U	3.8 U	273 J	172	1.2 J	0.25 U	0.63 U	20.7 U
041421013	P303	04/14/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.012 U	0.012 U	0.0077 J	0.0075 U	0.014 U	0.012 U	0.0089 U	0.020 U	0.015 U	0.0085 J	117 U	0.30 U	3.8 U	116 U	2.4 U	0.57 U	0.25 U	0.75 J	20.7 U
041421014	P304	04/14/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.0098 U	0.014 J	0.022 J	0.013 J	0.027 J	0.054	0.0074 U	0.017 U	0.034 J	0.044	117 U	0.30 U	3.8 U	116 U	27.8	2.3	0.25 U	0.63 U	20.7 U
041321010	P305	04/13/2021	0.30 U	0.33 U	0.29 U	0.35 U	0.70 U	1.0 U	0.011 U	0.012 U	0.020 J	0.013 J	0.015 J	0.053 J	0.022 J	0.020 U	0.015 U	0.038 J	117 U	0.30 U	3.8 U	116 U	34.4	4.4	0.25 U	0.64 J	20.7 U

Total Number of Samples Analyzed:			23	23	18	18	18	18	18	23	23	18	23	18	18	23	18	18	18	18	18	18	18	18	18	18	18
Number of Detections:			6	7	2	3	3	3	8	4	11	5	5	9	7	11	6	11	0	3	5	11	15	17	1	10	3
Min:			16.6	3	1.2	1.2	1.9	3.1	0.016	0.014	0.0067	0.0091	0.015	0.019	0.022	0.03	0.016	0.0085	NA	0.32	4	273	27.8	0.58	0.27	0.64	22.2
Max:			4,520	441	4.7	64.6	71.8	136	3.4	2	2.1	1.3	1.7	2.4	19.6	3,360	21.7	2.7	NA	1.4	10.3	48,700	2,710	13.7	0.27	3.8	135
WI Groundwater SL:			5	700	800	NS	NS	2000	3000	0.2	0.2	NS	0.2	400	400	100	3000	250	200	6	1300	NS	300	100	50	30	NS
Number of Samples that Exceed WI Groundwater SL:			6	0	0	0	0	0	0	2	2	0	2	0	0	6	0	0	0	0	0	0	9	0	0	0	0
WI Groundwater PAL:			0.5	140	160	NS	NS	400	600	0.02	0.02	NS	0.02	80	80	10	NS	50	40	1.2	130	150	60	20	10	6	2500
Number of Samples that Exceed WI Groundwater PAL:			6	3	0	0	0	0	0	3	5	0	4	0	0	6	0	0	0	1	0	11	13	0	0	0	0
Tap Water RSL:			0.46	1.5	1100	190	190	190	1800	0.025	0.25	120	25	800	290	0.12	1800	120	20000	7.8	800	14000	430	390	94	86	6000
Number of Samples that Exceed Tap Water RSL:			6	7	0	0	0	0	0	3	2	0	0	0	0	8	0	0	0	0	0	5	9	0	0	0	0

Analyte concentration attains or exceeds the standard/screening level for:

Bold	**WI Groundwater SL**
Underline	WI Groundwater PAL
Italic	*Tap Water RSL*
Pink Highlighting	result exceeds the WI Groundwater SL; results only exceeding the PAL and/or Tap Water criteria are not highlighted.
Yellow Highlighting	analyte exceedance in statistics for one or more samples

Results & Flags:
-- = Analysis not performed
J = Estimated concentration
U = Concentration was not detected above the reported limit

Acronyms:
* = Not enough sample volume for collection of field parameters
(N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol
µg/L = micrograms per liter
µS/cm = microsiemens per centimeter (micromhos per centimeter or µmhos/cm)
BRRTS = Bureau for Remediation and Redevelopment Tracking System
BTEX = Benzene, Toluene, Ethylbenzene and Xylene
CERCLIS = Comprehensive Environmental Response, Compensation, and Liability Information System
Deg C = degrees Celsius
EPA = Environmental Protection Agency
GW = Groundwater
mg/L = milligrams per liter
MGP = manufactured gas plant
NA = Not Applicable
NO2 + NO3 = nitrite plus nitrate
NS = No Standard or Screening Level
NTU = Nephelometric Turbidity Unit
PAH = Polycyclic Aromatic Hydrocarbon
PAL = Preventive Action Limit
RSL = Regional Screening Level
s.u. = standard units
SL = Screening Level
USEPA = United States Environmental Protection Agency
VISLs = Vapor Intrusion Screening Levels

1. Groundwater stabilization parameters / water-quality-indicator parameters / Field parameters were analyzed at time of sampling using an InSitu Aquatroll Multiparameter sonde

Screening Levels and Standards:
PAL from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020. Results that attain or exceed the PAL are considered to be in exceedance.

Groundwater and Tap Water Screening Levels used on this table were presented in the Multi-Site Risk Assessment Framework (RAF) Addendum Revision 6, issued in August 2017. Since that time, seven revisions of the RSLs have been published by EPA through November 2020. As a result of these seven revisions, there were

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

Table 1. Groundwater Analytical Results Compared to the Groundwater Standard, Tap Water Criteria, and WI PAL

Monthly Progress Report - April 2021 Sample Results
Wisconsin Public Service Corporation
Marinette Former MGP
Marinette, Wisconsin
BRRTS# 0238000047 CERCLIS ID: WIN000509952

			Inorganic		Inorganic		Inorganic		Organic		Field [1]		Field [1]		Field [1]		Field [1]		Field [1]		Field [1]	
9-Digit Code	Sample Location	Sample Date	Alkalinity, Total		Nitrogen, NO2 + NO3, Total		Sulfate, Total		Methane		Dissolved oxygen		Groundwater, depth to		Oxidation Reduction Potential		pH, Field		Specific Conductance, Field		Temperature, Water		Turbidity, Quantitative	
Reporting Units:			µg/L		µg/L		µg/L		µg/L		mg/L		feet		millivolts		s.u.		µS/cm		Deg C		NTUs	
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
WI Groundwater SL:			**NS**		**NS**		**NS**		**NS**		**NS**		**NS**		**NS**		**NS**		**NS**		**NS**		**NS**	
WI Groundwater PAL:			NS		2.000		125.000		NS		NS		NS		NS		NS		NS		NS		NS	
Tap Water RSL:			*NS*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*	
041421020	MW01R	04/14/2021	433,000		59	U	440	U	7,560		0.09		2.52		-47.6		6.80		879.9		5.10		0.00	
041421012	MW03R	04/14/2021	282,000		3.800		87,500		70.8		0.79		3.58		213.6		7.00		666.3		7.79		0.00	
041321007	MW05	04/13/2021	261,000		1,300		93,000		0.66	U	0.67		7.00		-1.0		7.39		1,553.7		9.04		0.00	
041321002	MW302	04/13/2021	256,000		3,700		46,900		0.66	U	2.49		11.21		86.9		7.01		1,451.9		8.25		0.00	
041321005	MW303	04/13/2021	417,000		600		180.000		259		0.11		2.93		-49.4		7.26		1,999.2		9.59		21.69	
041321004	MW304	04/13/2021	365,000		59	U	52,800		253		0.75		5.64		21.5		7.75		1,257.5		8.55		0.00	
041321001	MW305	04/13/2021	276,000		7,300		53,700		0.66	U	0.41		14.22		102.3		7.35		1,618.3		9.30		0.00	
041421015	MW306	04/13/2021	688,000		300	U	480	J	6,990		0.24		3.11		-100.4		6.97		1,580.6		6.14		3.64	
041421021	MW307R	04/14/2021	220,000		59	U	1,800	J	4,030		0.15		3.02		-147.0		7.49		641.5		6.75		1.10	
041321008/041321009 (N)	MW308	04/13/2021	691,000		190	J	240,000		42.7		0.19		4.76		71.6		6.76		4,278.5		8.92		6.95	
041421018	MW310	04/14/2021	387,000		300		252,000		475		0.26		3.90		-17.8		7.06		2,782.0		7.80		9.86	
041421016/041421017 (N)	MW311	04/14/2021	680,000		59	U	940	J	10,400		0.50		3.55		-100.5		6.98		3,103.3		6.84		20.17	
041421019	MW312	04/14/2021	859,000		59	U	1,400	J	7,560		0.35		1.54		-78.6		6.91		2,174.9		6.63		9.23	
041321006	MW313	04/13/2021	334,000		59	U	87,000		1,990		0.20		3.18		-112.0		7.19		763.4		7.93		0.00	
041421024	MWFCOND	04/14/2021	--		--		--		--		0.12		6.15		-80.1		7.06		1,347.6		7.96		5.98	
041421026/041421027 (N)	MWG2	04/14/2021	--		--		--		--		0.17		4.12		-116.4		6.92		3,400.4		6.97		0.00	
041421025	MWJ1	04/14/2021	--		--		--		--		0.03		7.19		-118.9		7.21		4,135.0		7.70		18.43	
041421023	MWO3	04/14/2021	--		--		--		--		0.19		3.28		-122.7		7.17		6,859.2		8.35		0.00	
041421022	MWTCONB	04/14/2021	--		--		--		--		0.14		2.98		-92.8		6.84		3,727.2		8.41		0.00	
041321003	P302	04/13/2021	249,000		220	J	69,200		1.4	J	2.75		11.80		50.9		7.20		1,437.5		8.94		0.00	
041421013	P303	04/14/2021	136,000		260		887,000		0.66	U	-- *		-- *		-- *		-- *		-- *		-- *		-- *	
041421014	P304	04/14/2021	191,000		2,300		553,000		0.66	U	-- *		-- *		-- *		-- *		-- *		-- *		-- *	
041321010	P305	04/13/2021	339,000		130	J	32,600		3.3		3.39		5.04		57.6		7.20		2,553.8		10.08		0.00	

[O:CMD 5/10/21, C:SGW 5/11/21]

Total Number of Samples Analyzed:	18	18	18	18	18	18	18	18	18	18	18
Number of Detections:	18	11	17	13	18	18	18	18	18	18	18
Min:	136,000	130	480	1.4	0.03	1.54	-147	6.8	641,457	5.1	0
Max:	859,000	7,300	887,000	10,400	3.39	14.22	213.6	7.75	6,859,160	10.08	21.69
WI Groundwater SL:	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Number of Samples that Exceed WI Groundwater SL:	0	0	0	0	0	0	0	0	0	0	0
WI Groundwater PAL:	NS	2000	125000	NS	NS	NS	NS	NS	NS	NS	NS
Number of Samples that Exceed WI Groundwater PAL:	0	4	5	0	0	0	0	0	0	0	0
Tap Water RSL:	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Number of Samples that Exceed Tap Water RSL:	0	0	0	0	0	0	0	0	0	0	0

[O:CMD 5/10/21, C:SGW 5/11/21, QA:MDB 5/13/21]

Analyte concentration attains or exceeds the standard/screening level for:

Bold	**WI Groundwater SL**
Underline	WI Groundwater PAL
Italic	*Tap Water RSL*
Pink Highlighting	result exceeds the WI Groundwater SL; results only exceeding the PAL and/or Tap Water criteria are not highlighted.
Yellow Highlighting	analyte exceedance in statistics for one or more samples

Results & Flags:
-- = Analysis not performed
J = Estimated concentration
U = Concentration was not detected above the reported limit

Acronyms:
* = Not enough sample volume for collection of field parameters
(N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol
µg/L = micrograms per liter
µS/cm = microsiemens per centimeter (micromhos per centimeter or µmhos/cm)
BRRTS = Bureau for Remediation and Redevelopment Tracking System
BTEX = Benzene, Toluene, Ethylbenzene and Xylene
CERCLIS = Comprehensive Environmental Response, Compensation, and Liability Information System
Deg C = degrees Celsius
EPA = Environmental Protection Agency
GW = Groundwater
mg/L = milligrams per liter
MGP = manufactured gas plant
NA = Not Applicable
NO2 + NO3 = nitrite plus nitrate
NS = No Standard or Screening Level
NTU = Nephelometric Turbidity Unit
PAH = Polycyclic Aromatic Hydrocarbon
PAL = Preventive Action Limit
RSL = Regional Screening Level
s.u. = standard units
SL = Screening Level
USEPA = United States Environmental Protection Agency
VISLs = Vapor Intrusion Screening Levels

1. Groundwater stabilization parameters / water-quality-indicator parameters / Field parameters were analyzed at time of sampling using an InSitu Aquatroll Multiparameter

Screening Levels and Standards:
PAL from WI Administrative Code NR 140
groundwater quality standard revised

Groundwater and Tap Water Screening
Levels used on this table were presented
in the Multi-Site Risk Assessment

Lab comments, additional data qualifiers and definitions can be found in associa

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

April 29, 2021

Scott Woods
Ramboll

,

RE: Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Dear Scott Woods:

Enclosed are the analytical results for sample(s) received by the laboratory on April 15, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Green Bay

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

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Marcus Byker, Ramboll
NRT Data, Ramboll
Eric Plante, Ramboll
Abigail Small, Ramboll
Steve Wiskes, Ramboll

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CERTIFICATIONS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Pace Analytical Services Green Bay
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

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SAMPLE SUMMARY

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40225185001	**041321001**	Water	04/13/21 12:00	04/15/21 08:05
40225185002	**041321002**	Water	04/13/21 12:40	04/15/21 08:05
40225185003	**041321003**	Water	04/13/21 13:17	04/15/21 08:05
40225185004	**041321004**	Water	04/13/21 14:04	04/15/21 08:05
40225185005	**041321005**	Water	04/13/21 15:02	04/15/21 08:05
40225185006	**041321006**	Water	04/13/21 15:33	04/15/21 08:05
40225185007	**041321007**	Water	04/13/21 16:14	04/15/21 08:05
40225185008	**041321008**	Water	04/13/21 16:55	04/15/21 08:05
40225185009	**041321009**	Water	04/13/21 17:00	04/15/21 08:05
40225185010	**041321010**	Water	04/13/21 17:47	04/15/21 08:05
40225185011	**041321011**	Water	04/13/21 18:00	04/15/21 08:05
40225185012	**041421012**	Water	04/14/21 07:11	04/15/21 08:05
40225185013	**041421013**	Water	04/14/21 07:30	04/15/21 08:05
40225185014	**041421014**	Water	04/14/21 08:00	04/15/21 08:05
40225185015	**041421015**	Water	04/14/21 08:27	04/15/21 08:05
40225185016	**041421016**	Water	04/14/21 09:05	04/15/21 08:05
40225185017	**041421017**	Water	04/14/21 09:10	04/15/21 08:05
40225185018	**041421018**	Water	04/14/21 09:54	04/15/21 08:05
40225185019	**041421019**	Water	04/14/21 10:31	04/15/21 08:05
40225185020	**041421020**	Water	04/14/21 11:07	04/15/21 08:05
40225185021	**041421021**	Water	04/14/21 12:27	04/15/21 08:05
40225185022	**041421028**	Water	04/14/21 16:00	04/15/21 08:05
40225185023	**041421029**	Water	04/14/21 00:00	04/15/21 08:05

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40225185001	**041321001**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185002	**041321002**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185003	**041321003**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185004	**041321004**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185005	**041321005**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185006	**041321006**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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SAMPLE ANALYTE COUNT

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185007	**041321007**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185008	**041321008**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185009	**041321009**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185010	**041321010**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185011	**041321011**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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SAMPLE ANALYTE COUNT

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185012	**041421012**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185013	**041421013**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185014	**041421014**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185015	**041421015**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185016	**041421016**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	DAW	1	PASI-G
40225185017	**041421017**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185018	**041421018**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185019	**041421019**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185020	**041421020**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185021	**041421021**	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185022	**041421028**	EPA 8015B Modified	ALD	1	PASI-G

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40225185023	**041421029**	EPA 8260	LAP	9	PASI-G

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Method: **EPA 8015B Modified**
Description: Methane, Ethane, Ethene GCV
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 29, 2021

General Information:
22 samples were analyzed for EPA 8015B Modified by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 383140

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40225185004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2210050)
  - Methane
- MSD (Lab ID: 2210051)
  - Methane

QC Batch: 383668

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40225831007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2213138)
  - Methane

Additional Comments:

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

PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 29, 2021

General Information:
22 samples were analyzed for EPA 6020 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

P4: Sample field preservation does not meet EPA or method recommendations for this analysis.
- 041421013 (Lab ID: 40225185013)
- 041421014 (Lab ID: 40225185014)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 382630

B: Analyte was detected in the associated method blank.
- BLANK for HBN 382630 [MPRP/247 (Lab ID: 2206953)
  - Iron, Dissolved

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 29, 2021

Analyte Comments:

QC Batch: 382630

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- 041321001 (Lab ID: 40225185001)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved
- 041321002 (Lab ID: 40225185002)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved
- 041321003 (Lab ID: 40225185003)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Iron, Dissolved
  - Nickel, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved
- 041321004 (Lab ID: 40225185004)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Antimony, Dissolved
  - Zinc, Dissolved
- 041321005 (Lab ID: 40225185005)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved

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PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 29, 2021

Analyte Comments:

QC Batch: 382630

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- 041321006 (Lab ID: 40225185006)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Antimony, Dissolved
  - Zinc, Dissolved
- 041321007 (Lab ID: 40225185007)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Iron, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved
- 041321008 (Lab ID: 40225185008)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
- 041321009 (Lab ID: 40225185009)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
- 041321010 (Lab ID: 40225185010)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Iron, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved
- 041421012 (Lab ID: 40225185012)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Iron, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved

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PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 29, 2021

Analyte Comments:

QC Batch: 382630

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- 041421015 (Lab ID: 40225185015)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Nickel, Dissolved
  - Antimony, Dissolved
  - Zinc, Dissolved
- 041421016 (Lab ID: 40225185016)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Nickel, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved
- 041421017 (Lab ID: 40225185017)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved
- 041421018 (Lab ID: 40225185018)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved
- 041421019 (Lab ID: 40225185019)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Nickel, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved
- 041421020 (Lab ID: 40225185020)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Nickel, Dissolved
  - Antimony, Dissolved

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PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 29, 2021

Analyte Comments:

QC Batch: 382630

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- 041421020 (Lab ID: 40225185020)
  - Vanadium, Dissolved
  - Zinc, Dissolved
- 041421021 (Lab ID: 40225185021)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Nickel, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved

QC Batch: 382995

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- 041421013 (Lab ID: 40225185013)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Nickel, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved
- 041421014 (Lab ID: 40225185014)
  - Silver, Dissolved
  - Aluminum, Dissolved
  - Copper, Dissolved
  - Iron, Dissolved
  - Antimony, Dissolved
  - Vanadium, Dissolved
  - Zinc, Dissolved

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PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 29, 2021

General Information:
22 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 382742

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
- LCS (Lab ID: 2207919)
  - Benzo(a)pyrene

QC Batch: 382900

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
- LCSD (Lab ID: 2208705)
  - Benzo(a)pyrene
  - Benzo(g,h,i)perylene
  - Chrysene

R1: RPD value was outside control limits.
- LCSD (Lab ID: 2208705)
  - Benzo(g,h,i)perylene

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PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 29, 2021

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 382742

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40225185004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2207920)
  - Naphthalene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2207921)
  - Naphthalene

QC Batch: 382900

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 383015

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 383016

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Batch Comments:

Four compounds failed low in the LCSD, there was no chance to reextract within sample hold time.

- QC Batch: 382962

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PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Method: **EPA 8260**
Description: 8260 MSV UST
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 29, 2021

General Information:
23 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 29, 2021

General Information:
22 samples were analyzed for EPA 300.0 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 383360

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40225119001,40225185004

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 2211704)
  - Sulfate

QC Batch: 383361

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40225185007,40225195003

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2211709)
  - Sulfate
- MS (Lab ID: 2211711)
  - Sulfate
- MSD (Lab ID: 2211710)
  - Sulfate

Additional Comments:

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PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Method: **EPA 310.2**
Description: 310.2 Alkalinity
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 29, 2021

General Information:
22 samples were analyzed for EPA 310.2 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 383116

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40225185017,40225351015

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2209990)
  - Alkalinity, Total as CaCO3
- MSD (Lab ID: 2209991)
  - Alkalinity, Total as CaCO3

Additional Comments:

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PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 29, 2021

General Information:
22 samples were analyzed for EPA 353.2 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 382974

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- 041421015 (Lab ID: 40225185015)
  - Nitrogen, NO2 plus NO3
- 041421016 (Lab ID: 40225185016)
  - Nitrogen, NO2 plus NO3

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321001 **Lab ID: 40225185001** Collected: 04/13/21 12:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**<0.66**	ug/L	2.8	0.66	1		04/22/21 08:40	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 19:37	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 19:37	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 19:37	7440-50-8	D3
Iron, Dissolved	**<116**	ug/L	500	116	2	04/16/21 05:24	04/20/21 19:37	7439-89-6	D3
Manganese, Dissolved	**<2.4**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 19:37	7439-96-5	D3
Nickel, Dissolved	**0.58J**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 19:37	7440-02-0	D3
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 19:37	7440-22-4	D3
Vanadium, Dissolved	**<0.63**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 19:37	7440-62-2	D3
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 19:37	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**<0.011**	ug/L	0.057	0.011	1	04/19/21 08:02	04/20/21 10:46	120-12-7	
Benzo(a)pyrene	**<0.012**	ug/L	0.058	0.012	1	04/19/21 08:02	04/20/21 10:46	50-32-8	L2
Benzo(b)fluoranthene	**0.0072J**	ug/L	0.032	0.0063	1	04/19/21 08:02	04/20/21 10:46	205-99-2	
Benzo(g,h,i)perylene	**<0.0075**	ug/L	0.037	0.0075	1	04/19/21 08:02	04/20/21 10:46	191-24-2	
Chrysene	**<0.014**	ug/L	0.072	0.014	1	04/19/21 08:02	04/20/21 10:46	218-01-9	
Fluoranthene	**<0.012**	ug/L	0.059	0.012	1	04/19/21 08:02	04/20/21 10:46	206-44-0	
Fluorene	**<0.0088**	ug/L	0.044	0.0088	1	04/19/21 08:02	04/20/21 10:46	86-73-7	
Naphthalene	**<0.020**	ug/L	0.10	0.020	1	04/19/21 08:02	04/20/21 10:46	91-20-3	
Phenanthrene	**<0.015**	ug/L	0.076	0.015	1	04/19/21 08:02	04/20/21 10:46	85-01-8	
Pyrene	**<0.0084**	ug/L	0.042	0.0084	1	04/19/21 08:02	04/20/21 10:46	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-120		1	04/19/21 08:02	04/20/21 10:46	321-60-8	
Terphenyl-d14 (S)	83	%	10-159		1	04/19/21 08:02	04/20/21 10:46	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 10:49	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 10:49	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 10:49	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 10:49	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 10:49	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 10:49	95-47-6	
Surrogates									
Toluene-d8 (S)	91	%	70-130		1		04/21/21 10:49	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/21/21 10:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		04/21/21 10:49	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321001 **Lab ID: 40225185001** Collected: 04/13/21 12:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**53.7**	mg/L	2.0	0.44	1		04/26/21 21:20	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**276**	mg/L	24.8	7.4	1		04/22/21 14:12		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**7.3**	mg/L	0.25	0.059	1		04/21/21 11:25		

Sample: 041321002 **Lab ID: 40225185002** Collected: 04/13/21 12:40 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**<0.66**	ug/L	2.8	0.66	1		04/22/21 08:47	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 19:51	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 19:51	7440-36-0	D3
Copper, Dissolved	**4.0J**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 19:51	7440-50-8	D3
Iron, Dissolved	**<116**	ug/L	500	116	2	04/16/21 05:24	04/20/21 19:51	7439-89-6	D3
Manganese, Dissolved	**<2.4**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 19:51	7439-96-5	D3
Nickel, Dissolved	**1.3J**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 19:51	7440-02-0	D3
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 19:51	7440-22-4	D3
Vanadium, Dissolved	**<0.63**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 19:51	7440-62-2	D3
Zinc, Dissolved	**22.2J**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 19:51	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**0.63**	ug/L	0.057	0.011	1	04/19/21 08:02	04/20/21 11:04	120-12-7	
Benzo(a)pyrene	**2.0**	ug/L	0.057	0.011	1	04/19/21 08:02	04/20/21 11:04	50-32-8	L2
Benzo(b)fluoranthene	**2.1**	ug/L	0.031	0.0062	1	04/19/21 08:02	04/20/21 11:04	205-99-2	
Benzo(g,h,i)perylene	**1.3**	ug/L	0.037	0.0074	1	04/19/21 08:02	04/20/21 11:04	191-24-2	
Chrysene	**1.7**	ug/L	0.071	0.014	1	04/19/21 08:02	04/20/21 11:04	218-01-9	
Fluoranthene	**1.9**	ug/L	0.058	0.012	1	04/19/21 08:02	04/20/21 11:04	206-44-0	
Fluorene	**0.066**	ug/L	0.043	0.0087	1	04/19/21 08:02	04/20/21 11:04	86-73-7	
Naphthalene	**0.13**	ug/L	0.10	0.020	1	04/19/21 08:02	04/20/21 11:04	91-20-3	
Phenanthrene	**0.26**	ug/L	0.075	0.015	1	04/19/21 08:02	04/20/21 11:04	85-01-8	
Pyrene	**1.7**	ug/L	0.042	0.0083	1	04/19/21 08:02	04/20/21 11:04	129-00-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321002 **Lab ID: 40225185002** Collected: 04/13/21 12:40 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Surrogates									
2-Fluorobiphenyl (S)	55	%	39-120		1	04/19/21 08:02	04/20/21 11:04	321-60-8	
Terphenyl-d14 (S)	79	%	10-159		1	04/19/21 08:02	04/20/21 11:04	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 11:08	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 11:08	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 11:08	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 11:08	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 11:08	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 11:08	95-47-6	
Surrogates									
Toluene-d8 (S)	95	%	70-130		1		04/21/21 11:08	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/21/21 11:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		04/21/21 11:08	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**46.9**	mg/L	2.0	0.44	1		04/26/21 21:35	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**256**	mg/L	24.8	7.4	1		04/22/21 14:13		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**3.7**	mg/L	0.25	0.059	1		04/21/21 11:25		

Sample: 041321003 **Lab ID: 40225185003** Collected: 04/13/21 13:17 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Methane	**1.4J**	ug/L	2.8	0.66	1		04/22/21 08:54	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
	Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 19:58	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 19:58	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 19:58	7440-50-8	D3
Iron, Dissolved	**273J**	ug/L	500	116	2	04/16/21 05:24	04/20/21 19:58	7439-89-6	B,D3

REPORT OF LABORATORY ANALYSIS

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

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321003 **Lab ID: 40225185003** Collected: 04/13/21 13:17 Received: 04/15/21 08:05 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 Pace Analytical Services - Green Bay								
Manganese, Dissolved	**172**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 19:58	7439-96-5	
Nickel, Dissolved	**1.2J**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 19:58	7440-02-0	D3
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 19:58	7440-22-4	D3
Vanadium, Dissolved	**<0.63**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 19:58	7440-62-2	D3
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 19:58	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**<0.011**	ug/L	0.057	0.011	1	04/19/21 08:02	04/20/21 11:23	120-12-7	
Benzo(a)pyrene	**<0.011**	ug/L	0.057	0.011	1	04/19/21 08:02	04/20/21 11:23	50-32-8	L2
Benzo(b)fluoranthene	**<0.0062**	ug/L	0.031	0.0062	1	04/19/21 08:02	04/20/21 11:23	205-99-2	
Benzo(g,h,i)perylene	**<0.0074**	ug/L	0.037	0.0074	1	04/19/21 08:02	04/20/21 11:23	191-24-2	
Chrysene	**<0.014**	ug/L	0.071	0.014	1	04/19/21 08:02	04/20/21 11:23	218-01-9	
Fluoranthene	**<0.012**	ug/L	0.058	0.012	1	04/19/21 08:02	04/20/21 11:23	206-44-0	
Fluorene	**<0.0087**	ug/L	0.043	0.0087	1	04/19/21 08:02	04/20/21 11:23	86-73-7	
Naphthalene	**<0.020**	ug/L	0.10	0.020	1	04/19/21 08:02	04/20/21 11:23	91-20-3	
Phenanthrene	**<0.015**	ug/L	0.075	0.015	1	04/19/21 08:02	04/20/21 11:23	85-01-8	
Pyrene	**<0.0083**	ug/L	0.042	0.0083	1	04/19/21 08:02	04/20/21 11:23	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	39-120		1	04/19/21 08:02	04/20/21 11:23	321-60-8	
Terphenyl-d14 (S)	80	%	10-159		1	04/19/21 08:02	04/20/21 11:23	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 11:27	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 11:27	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 11:27	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 11:27	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 11:27	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 11:27	95-47-6	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		04/21/21 11:27	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/21/21 11:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		04/21/21 11:27	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**69.2**	mg/L	10.0	2.2	5		04/27/21 15:10	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**249**	mg/L	24.8	7.4	1		04/22/21 14:14		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321003 **Lab ID: 40225185003** Collected: 04/13/21 13:17 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.22J**	mg/L	0.25	0.059	1		04/21/21 11:26		

Sample: 041321004 **Lab ID: 40225185004** Collected: 04/13/21 14:04 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**253**	ug/L	11.2	2.7	4		04/22/21 12:22	74-82-8	M1
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 19:10	7429-90-5	D3
Antimony, Dissolved	**1.4J**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 19:10	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 19:10	7440-50-8	D3
Iron, Dissolved	**3010**	ug/L	500	116	2	04/16/21 05:24	04/20/21 19:10	7439-89-6	
Manganese, Dissolved	**1830**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 19:10	7439-96-5	
Nickel, Dissolved	**3.1**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 19:10	7440-02-0	
Silver, Dissolved	**0.27J**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 19:10	7440-22-4	D3
Vanadium, Dissolved	**3.7**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 19:10	7440-62-2	
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 19:10	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**0.036J**	ug/L	0.058	0.012	1	04/19/21 08:02	04/19/21 16:03	120-12-7	
Benzo(a)pyrene	**<0.012**	ug/L	0.058	0.012	1	04/19/21 08:02	04/19/21 16:03	50-32-8	L2
Benzo(b)fluoranthene	**0.0067J**	ug/L	0.032	0.0064	1	04/19/21 08:02	04/19/21 16:03	205-99-2	
Benzo(g,h,i)perylene	**<0.0075**	ug/L	0.038	0.0075	1	04/19/21 08:02	04/19/21 16:03	191-24-2	
Chrysene	**<0.014**	ug/L	0.072	0.014	1	04/19/21 08:02	04/19/21 16:03	218-01-9	
Fluoranthene	**0.032J**	ug/L	0.059	0.012	1	04/19/21 08:02	04/19/21 16:03	206-44-0	
Fluorene	**0.079**	ug/L	0.044	0.0089	1	04/19/21 08:02	04/19/21 16:03	86-73-7	
Naphthalene	**1.4**	ug/L	0.10	0.020	1	04/19/21 08:02	04/19/21 16:03	91-20-3	M1,R1
Phenanthrene	**0.016J**	ug/L	0.077	0.015	1	04/19/21 08:02	04/19/21 16:03	85-01-8	
Pyrene	**0.022J**	ug/L	0.043	0.0085	1	04/19/21 08:02	04/19/21 16:03	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-120		1	04/19/21 08:02	04/19/21 16:03	321-60-8	
Terphenyl-d14 (S)	71	%	10-159		1	04/19/21 08:02	04/19/21 16:03	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**16.6**	ug/L	1.0	0.30	1		04/21/21 08:57	71-43-2	
Ethylbenzene	**3.0**	ug/L	1.0	0.33	1		04/21/21 08:57	100-41-4	
Toluene	**1.2**	ug/L	1.0	0.29	1		04/21/21 08:57	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321004 **Lab ID: 40225185004** Collected: 04/13/21 14:04 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Xylene (Total)	**3.1**	ug/L	3.0	1.0	1		04/21/21 08:57	1330-20-7	
m&p-Xylene	**1.9J**	ug/L	2.0	0.70	1		04/21/21 08:57	179601-23-1	
o-Xylene	**1.2**	ug/L	1.0	0.35	1		04/21/21 08:57	95-47-6	
Surrogates									
Toluene-d8 (S)	92	%	70-130		1		04/21/21 08:57	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		04/21/21 08:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	111	%	70-130		1		04/21/21 08:57	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**52.8**	mg/L	10.0	2.2	5		04/27/21 15:24	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**365**	mg/L	49.6	14.9	2		04/22/21 14:15		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		04/21/21 11:27		

Sample: 041321005 **Lab ID: 40225185005** Collected: 04/13/21 15:02 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**259**	ug/L	11.2	2.7	4		04/22/21 12:29	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 20:18	7429-90-5	D3
Antimony, Dissolved	**0.32J**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 20:18	7440-36-0	D3
Copper, Dissolved	**4.9J**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 20:18	7440-50-8	D3
Iron, Dissolved	**3670**	ug/L	500	116	2	04/16/21 05:24	04/20/21 20:18	7439-89-6	
Manganese, Dissolved	**1030**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 20:18	7439-96-5	
Nickel, Dissolved	**7.5**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 20:18	7440-02-0	
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 20:18	7440-22-4	D3
Vanadium, Dissolved	**1.4J**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 20:18	7440-62-2	D3
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 20:18	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**0.021J**	ug/L	0.057	0.011	1	04/19/21 08:02	04/20/21 11:41	120-12-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321005 **Lab ID: 40225185005** Collected: 04/13/21 15:02 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Benzo(a)pyrene	**<0.011**	ug/L	0.057	0.011	1	04/19/21 08:02	04/20/21 11:41	50-32-8	L2
Benzo(b)fluoranthene	**<0.0062**	ug/L	0.031	0.0062	1	04/19/21 08:02	04/20/21 11:41	205-99-2	
Benzo(g,h,i)perylene	**<0.0074**	ug/L	0.037	0.0074	1	04/19/21 08:02	04/20/21 11:41	191-24-2	
Chrysene	**<0.014**	ug/L	0.071	0.014	1	04/19/21 08:02	04/20/21 11:41	218-01-9	
Fluoranthene	**<0.012**	ug/L	0.058	0.012	1	04/19/21 08:02	04/20/21 11:41	206-44-0	
Fluorene	**<0.0087**	ug/L	0.043	0.0087	1	04/19/21 08:02	04/20/21 11:41	86-73-7	
Naphthalene	**<0.020**	ug/L	0.10	0.020	1	04/19/21 08:02	04/20/21 11:41	91-20-3	
Phenanthrene	**<0.015**	ug/L	0.075	0.015	1	04/19/21 08:02	04/20/21 11:41	85-01-8	
Pyrene	**0.015J**	ug/L	0.042	0.0083	1	04/19/21 08:02	04/20/21 11:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	39-120		1	04/19/21 08:02	04/20/21 11:41	321-60-8	
Terphenyl-d14 (S)	71	%	10-159		1	04/19/21 08:02	04/20/21 11:41	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 11:46	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 11:46	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 11:46	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 11:46	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 11:46	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 11:46	95-47-6	
Surrogates									
Toluene-d8 (S)	95	%	70-130		1		04/21/21 11:46	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/21/21 11:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		04/21/21 11:46	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**180**	mg/L	20.0	4.4	10		04/27/21 16:14	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**417**	mg/L	24.8	7.4	1		04/22/21 14:18		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.60**	mg/L	0.25	0.059	1		04/21/21 11:29		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321006 **Lab ID: 40225185006** Collected: 04/13/21 15:33 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**1990**	ug/L	70.0	16.6	25		04/22/21 12:36	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 20:25	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 20:25	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 20:25	7440-50-8	D3
Iron, Dissolved	**16300**	ug/L	500	116	2	04/16/21 05:24	04/20/21 20:25	7439-89-6	
Manganese, Dissolved	**1130**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 20:25	7439-96-5	
Nickel, Dissolved	**4.1**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 20:25	7440-02-0	
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 20:25	7440-22-4	D3
Vanadium, Dissolved	**2.1**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 20:25	7440-62-2	
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 20:25	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**0.016J**	ug/L	0.057	0.011	1	04/19/21 08:02	04/20/21 11:59	120-12-7	
Benzo(a)pyrene	**<0.012**	ug/L	0.058	0.012	1	04/19/21 08:02	04/20/21 11:59	50-32-8	L2
Benzo(b)fluoranthene	**0.013J**	ug/L	0.032	0.0063	1	04/19/21 08:02	04/20/21 11:59	205-99-2	
Benzo(g,h,i)perylene	**0.0091J**	ug/L	0.037	0.0075	1	04/19/21 08:02	04/20/21 11:59	191-24-2	
Chrysene	**<0.014**	ug/L	0.072	0.014	1	04/19/21 08:02	04/20/21 11:59	218-01-9	
Fluoranthene	**0.019J**	ug/L	0.059	0.012	1	04/19/21 08:02	04/20/21 11:59	206-44-0	
Fluorene	**0.025J**	ug/L	0.044	0.0088	1	04/19/21 08:02	04/20/21 11:59	86-73-7	
Naphthalene	**0.041J**	ug/L	0.10	0.020	1	04/19/21 08:02	04/20/21 11:59	91-20-3	
Phenanthrene	**<0.015**	ug/L	0.076	0.015	1	04/19/21 08:02	04/20/21 11:59	85-01-8	
Pyrene	**0.014J**	ug/L	0.042	0.0084	1	04/19/21 08:02	04/20/21 11:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54	%	39-120		1	04/19/21 08:02	04/20/21 11:59	321-60-8	
Terphenyl-d14 (S)	74	%	10-159		1	04/19/21 08:02	04/20/21 11:59	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 16:10	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 16:10	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 16:10	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 16:10	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 16:10	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 16:10	95-47-6	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		04/21/21 16:10	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/21/21 16:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		04/21/21 16:10	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321006 **Lab ID: 40225185006** Collected: 04/13/21 15:33 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**87.0**	mg/L	10.0	2.2	5		04/27/21 16:29	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**334**	mg/L	24.8	7.4	1		04/22/21 14:22		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		04/21/21 11:29		

Sample: 041321007 **Lab ID: 40225185007** Collected: 04/13/21 16:14 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**<0.66**	ug/L	2.8	0.66	1		04/22/21 09:22	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 20:32	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 20:32	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 20:32	7440-50-8	D3
Iron, Dissolved	**<116**	ug/L	500	116	2	04/16/21 05:24	04/20/21 20:32	7439-89-6	D3
Manganese, Dissolved	**131**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 20:32	7439-96-5	
Nickel, Dissolved	**2.6**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 20:32	7440-02-0	
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 20:32	7440-22-4	D3
Vanadium, Dissolved	**<0.63**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 20:32	7440-62-2	D3
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 20:32	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**<0.011**	ug/L	0.057	0.011	1	04/19/21 08:02	04/20/21 12:18	120-12-7	
Benzo(a)pyrene	**<0.012**	ug/L	0.058	0.012	1	04/19/21 08:02	04/20/21 12:18	50-32-8	L2
Benzo(b)fluoranthene	**<0.0063**	ug/L	0.032	0.0063	1	04/19/21 08:02	04/20/21 12:18	205-99-2	
Benzo(g,h,i)perylene	**<0.0075**	ug/L	0.037	0.0075	1	04/19/21 08:02	04/20/21 12:18	191-24-2	
Chrysene	**<0.014**	ug/L	0.072	0.014	1	04/19/21 08:02	04/20/21 12:18	218-01-9	
Fluoranthene	**<0.012**	ug/L	0.059	0.012	1	04/19/21 08:02	04/20/21 12:18	206-44-0	
Fluorene	**<0.0088**	ug/L	0.044	0.0088	1	04/19/21 08:02	04/20/21 12:18	86-73-7	
Naphthalene	**<0.020**	ug/L	0.10	0.020	1	04/19/21 08:02	04/20/21 12:18	91-20-3	
Phenanthrene	**<0.015**	ug/L	0.076	0.015	1	04/19/21 08:02	04/20/21 12:18	85-01-8	
Pyrene	**<0.0084**	ug/L	0.042	0.0084	1	04/19/21 08:02	04/20/21 12:18	129-00-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321007 **Lab ID: 40225185007** Collected: 04/13/21 16:14 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Surrogates									
2-Fluorobiphenyl (S)	58	%	39-120		1	04/19/21 08:02	04/20/21 12:18	321-60-8	
Terphenyl-d14 (S)	80	%	10-159		1	04/19/21 08:02	04/20/21 12:18	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 12:04	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 12:04	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 12:04	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 12:04	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 12:04	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 12:04	95-47-6	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		04/21/21 12:04	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/21/21 12:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		04/21/21 12:04	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**93.0**	mg/L	20.0	4.4	10		04/27/21 03:23	14808-79-8	M0
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**261**	mg/L	24.8	7.4	1		04/22/21 14:23		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**1.3**	mg/L	0.25	0.059	1		04/21/21 11:32		

Sample: 041321008 **Lab ID: 40225185008** Collected: 04/13/21 16:55 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Methane	**31.8**	ug/L	2.8	0.66	1		04/22/21 10:07	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
	Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 20:38	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 20:38	7440-36-0	D3
Copper, Dissolved	**10.3J**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 20:38	7440-50-8	D3
Iron, Dissolved	**1470**	ug/L	500	116	2	04/16/21 05:24	04/20/21 20:38	7439-89-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321008 **Lab ID: 40225185008** Collected: 04/13/21 16:55 Received: 04/15/21 08:05 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 Pace Analytical Services - Green Bay								
Manganese, Dissolved	**2710**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 20:38	7439-96-5	
Nickel, Dissolved	**13.7**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 20:38	7440-02-0	
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 20:38	7440-22-4	D3
Vanadium, Dissolved	**<0.63**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 20:38	7440-62-2	D3
Zinc, Dissolved	**135**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 20:38	7440-66-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**<0.011**	ug/L	0.056	0.011	1	04/19/21 08:02	04/20/21 12:36	120-12-7	
Benzo(a)pyrene	**<0.011**	ug/L	0.057	0.011	1	04/19/21 08:02	04/20/21 12:36	50-32-8	L2
Benzo(b)fluoranthene	**<0.0062**	ug/L	0.031	0.0062	1	04/19/21 08:02	04/20/21 12:36	205-99-2	
Benzo(g,h,i)perylene	**<0.0073**	ug/L	0.036	0.0073	1	04/19/21 08:02	04/20/21 12:36	191-24-2	
Chrysene	**<0.014**	ug/L	0.070	0.014	1	04/19/21 08:02	04/20/21 12:36	218-01-9	
Fluoranthene	**<0.011**	ug/L	0.057	0.011	1	04/19/21 08:02	04/20/21 12:36	206-44-0	
Fluorene	**<0.0086**	ug/L	0.043	0.0086	1	04/19/21 08:02	04/20/21 12:36	86-73-7	
Naphthalene	**<0.020**	ug/L	0.099	0.020	1	04/19/21 08:02	04/20/21 12:36	91-20-3	
Phenanthrene	**<0.015**	ug/L	0.074	0.015	1	04/19/21 08:02	04/20/21 12:36	85-01-8	
Pyrene	**<0.0082**	ug/L	0.041	0.0082	1	04/19/21 08:02	04/20/21 12:36	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54	%	39-120		1	04/19/21 08:02	04/20/21 12:36	321-60-8	
Terphenyl-d14 (S)	78	%	10-159		1	04/19/21 08:02	04/20/21 12:36	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 12:23	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 12:23	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 12:23	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 12:23	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 12:23	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 12:23	95-47-6	
Surrogates									
Toluene-d8 (S)	95	%	70-130		1		04/21/21 12:23	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/21/21 12:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		04/21/21 12:23	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**240**	mg/L	20.0	4.4	10		04/27/21 04:08	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**637**	mg/L	124	37.2	5		04/22/21 16:30		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321008 **Lab ID: 40225185008** Collected: 04/13/21 16:55 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.17J**	mg/L	0.25	0.059	1		04/21/21 11:32		

Sample: 041321009 **Lab ID: 40225185009** Collected: 04/13/21 17:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**42.7**	ug/L	2.8	0.66	1		04/22/21 10:14	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 20:45	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 20:45	7440-36-0	D3
Copper, Dissolved	**8.4J**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 20:45	7440-50-8	D3
Iron, Dissolved	**1530**	ug/L	500	116	2	04/16/21 05:24	04/20/21 20:45	7439-89-6	
Manganese, Dissolved	**2700**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 20:45	7439-96-5	
Nickel, Dissolved	**12.0**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 20:45	7440-02-0	
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 20:45	7440-22-4	D3
Vanadium, Dissolved	**<0.63**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 20:45	7440-62-2	D3
Zinc, Dissolved	**133**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 20:45	7440-66-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**<0.011**	ug/L	0.057	0.011	1	04/20/21 09:10	04/20/21 13:59	120-12-7	
Benzo(a)pyrene	**<0.011**	ug/L	0.057	0.011	1	04/20/21 09:10	04/20/21 13:59	50-32-8	L2
Benzo(b)fluoranthene	**<0.0062**	ug/L	0.031	0.0062	1	04/20/21 09:10	04/20/21 13:59	205-99-2	
Benzo(g,h,i)perylene	**<0.0074**	ug/L	0.037	0.0074	1	04/20/21 09:10	04/20/21 13:59	191-24-2	L2
Chrysene	**<0.014**	ug/L	0.071	0.014	1	04/20/21 09:10	04/20/21 13:59	218-01-9	L2
Fluoranthene	**<0.012**	ug/L	0.058	0.012	1	04/20/21 09:10	04/20/21 13:59	206-44-0	
Fluorene	**<0.0087**	ug/L	0.043	0.0087	1	04/20/21 09:10	04/20/21 13:59	86-73-7	
Naphthalene	**<0.020**	ug/L	0.10	0.020	1	04/20/21 09:10	04/20/21 13:59	91-20-3	
Phenanthrene	**<0.015**	ug/L	0.075	0.015	1	04/20/21 09:10	04/20/21 13:59	85-01-8	
Pyrene	**<0.0083**	ug/L	0.042	0.0083	1	04/20/21 09:10	04/20/21 13:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-120		1	04/20/21 09:10	04/20/21 13:59	321-60-8	
Terphenyl-d14 (S)	72	%	10-159		1	04/20/21 09:10	04/20/21 13:59	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 12:42	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 12:42	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 12:42	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321009 **Lab ID: 40225185009** Collected: 04/13/21 17:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 12:42	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 12:42	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 12:42	95-47-6	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		04/21/21 12:42	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/21/21 12:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		04/21/21 12:42	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**240**	mg/L	20.0	4.4	10		04/27/21 04:23	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**691**	mg/L	124	37.2	5		04/22/21 16:31		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.19J**	mg/L	0.25	0.059	1		04/21/21 11:33		

Sample: 041321010 **Lab ID: 40225185010** Collected: 04/13/21 17:47 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**3.3**	ug/L	2.8	0.66	1		04/22/21 10:21	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 20:52	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 20:52	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 20:52	7440-50-8	D3
Iron, Dissolved	**<116**	ug/L	500	116	2	04/16/21 05:24	04/20/21 20:52	7439-89-6	D3
Manganese, Dissolved	**34.4**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 20:52	7439-96-5	
Nickel, Dissolved	**4.4**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 20:52	7440-02-0	
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 20:52	7440-22-4	D3
Vanadium, Dissolved	**0.64J**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 20:52	7440-62-2	D3
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 20:52	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**<0.011**	ug/L	0.057	0.011	1	04/20/21 09:10	04/20/21 14:17	120-12-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321010 **Lab ID: 40225185010** Collected: 04/13/21 17:47 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Benzo(a)pyrene	**<0.012**	ug/L	0.058	0.012	1	04/20/21 09:10	04/20/21 14:17	50-32-8	L2
Benzo(b)fluoranthene	**0.020J**	ug/L	0.032	0.0063	1	04/20/21 09:10	04/20/21 14:17	205-99-2	
Benzo(g,h,i)perylene	**0.013J**	ug/L	0.037	0.0075	1	04/20/21 09:10	04/20/21 14:17	191-24-2	L2
Chrysene	**0.015J**	ug/L	0.072	0.014	1	04/20/21 09:10	04/20/21 14:17	218-01-9	L2
Fluoranthene	**0.053J**	ug/L	0.059	0.012	1	04/20/21 09:10	04/20/21 14:17	206-44-0	
Fluorene	**0.022J**	ug/L	0.044	0.0088	1	04/20/21 09:10	04/20/21 14:17	86-73-7	
Naphthalene	**<0.020**	ug/L	0.10	0.020	1	04/20/21 09:10	04/20/21 14:17	91-20-3	
Phenanthrene	**<0.015**	ug/L	0.076	0.015	1	04/20/21 09:10	04/20/21 14:17	85-01-8	
Pyrene	**0.038J**	ug/L	0.042	0.0084	1	04/20/21 09:10	04/20/21 14:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%	39-120		1	04/20/21 09:10	04/20/21 14:17	321-60-8	
Terphenyl-d14 (S)	82	%	10-159		1	04/20/21 09:10	04/20/21 14:17	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 13:01	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 13:01	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 13:01	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 13:01	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 13:01	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 13:01	95-47-6	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		04/21/21 13:01	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/21/21 13:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		04/21/21 13:01	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**32.6**	mg/L	2.0	0.44	1		04/26/21 15:36	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**339**	mg/L	24.8	7.4	1		04/22/21 14:27		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.13J**	mg/L	0.25	0.059	1		04/21/21 11:34		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321011 **Lab ID: 40225185011** Collected: 04/13/21 18:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**<0.66**	ug/L	2.8	0.66	1		04/22/21 10:28	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<58.7**	ug/L	250	58.7	1	04/16/21 05:24	04/21/21 15:02	7429-90-5	
Antimony, Dissolved	**<0.15**	ug/L	1.0	0.15	1	04/16/21 05:24	04/21/21 15:02	7440-36-0	
Copper, Dissolved	**<1.9**	ug/L	6.4	1.9	1	04/16/21 05:24	04/21/21 15:02	7440-50-8	
Iron, Dissolved	**<58.0**	ug/L	250	58.0	1	04/16/21 05:24	04/21/21 15:02	7439-89-6	
Manganese, Dissolved	**<1.2**	ug/L	4.0	1.2	1	04/16/21 05:24	04/21/21 15:02	7439-96-5	
Nickel, Dissolved	**<0.28**	ug/L	1.0	0.28	1	04/16/21 05:24	04/21/21 15:02	7440-02-0	
Silver, Dissolved	**<0.13**	ug/L	0.50	0.13	1	04/16/21 05:24	04/21/21 15:02	7440-22-4	
Vanadium, Dissolved	**<0.32**	ug/L	1.0	0.32	1	04/16/21 05:24	04/21/21 15:02	7440-62-2	
Zinc, Dissolved	**<10.3**	ug/L	34.4	10.3	1	04/16/21 05:24	04/21/21 15:02	7440-66-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**<0.011**	ug/L	0.054	0.011	1	04/20/21 09:10	04/20/21 14:35	120-12-7	
Benzo(a)pyrene	**<0.011**	ug/L	0.054	0.011	1	04/20/21 09:10	04/20/21 14:35	50-32-8	L2
Benzo(b)fluoranthene	**<0.0059**	ug/L	0.030	0.0059	1	04/20/21 09:10	04/20/21 14:35	205-99-2	
Benzo(g,h,i)perylene	**<0.0070**	ug/L	0.035	0.0070	1	04/20/21 09:10	04/20/21 14:35	191-24-2	L2
Chrysene	**<0.013**	ug/L	0.067	0.013	1	04/20/21 09:10	04/20/21 14:35	218-01-9	L2
Fluoranthene	**<0.011**	ug/L	0.055	0.011	1	04/20/21 09:10	04/20/21 14:35	206-44-0	
Fluorene	**<0.0082**	ug/L	0.041	0.0082	1	04/20/21 09:10	04/20/21 14:35	86-73-7	
Naphthalene	**<0.019**	ug/L	0.094	0.019	1	04/20/21 09:10	04/20/21 14:35	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.071	0.014	1	04/20/21 09:10	04/20/21 14:35	85-01-8	
Pyrene	**<0.0079**	ug/L	0.039	0.0079	1	04/20/21 09:10	04/20/21 14:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%	39-120		1	04/20/21 09:10	04/20/21 14:35	321-60-8	
Terphenyl-d14 (S)	79	%	10-159		1	04/20/21 09:10	04/20/21 14:35	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 13:20	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 13:20	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 13:20	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 13:20	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 13:20	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 13:20	95-47-6	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		04/21/21 13:20	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/21/21 13:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		04/21/21 13:20	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041321011 **Lab ID: 40225185011** Collected: 04/13/21 18:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**<0.44**	mg/L	2.0	0.44	1		04/26/21 16:35	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**<7.4**	mg/L	24.8	7.4	1		04/22/21 14:28		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		04/21/21 11:34		

Sample: 041421012 **Lab ID: 40225185012** Collected: 04/14/21 07:11 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**70.8**	ug/L	2.8	0.66	1		04/22/21 10:35	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 21:06	7429-90-5	D3
Antimony, Dissolved	**1.1J**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 21:06	7440-36-0	D3
Copper, Dissolved	**9.2J**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 21:06	7440-50-8	D3
Iron, Dissolved	**<116**	ug/L	500	116	2	04/16/21 05:24	04/20/21 21:06	7439-89-6	D3
Manganese, Dissolved	**172**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 21:06	7439-96-5	
Nickel, Dissolved	**3.1**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 21:06	7440-02-0	
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 21:06	7440-22-4	D3
Vanadium, Dissolved	**1.3J**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 21:06	7440-62-2	D3
Zinc, Dissolved	**49.1J**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 21:06	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**0.033J**	ug/L	0.056	0.011	1	04/21/21 08:50	04/21/21 14:36	120-12-7	
Benzo(a)pyrene	**0.059**	ug/L	0.057	0.011	1	04/21/21 08:50	04/21/21 14:36	50-32-8	
Benzo(b)fluoranthene	**0.088**	ug/L	0.031	0.0062	1	04/21/21 08:50	04/21/21 14:36	205-99-2	
Benzo(g,h,i)perylene	**0.044**	ug/L	0.036	0.0073	1	04/21/21 08:50	04/21/21 14:36	191-24-2	
Chrysene	**0.075**	ug/L	0.070	0.014	1	04/21/21 08:50	04/21/21 14:36	218-01-9	
Fluoranthene	**0.10**	ug/L	0.057	0.011	1	04/21/21 08:50	04/21/21 14:36	206-44-0	
Fluorene	**<0.0086**	ug/L	0.043	0.0086	1	04/21/21 08:50	04/21/21 14:36	86-73-7	
Naphthalene	**<0.020**	ug/L	0.099	0.020	1	04/21/21 08:50	04/21/21 14:36	91-20-3	
Phenanthrene	**0.020J**	ug/L	0.074	0.015	1	04/21/21 08:50	04/21/21 14:36	85-01-8	
Pyrene	**0.098**	ug/L	0.041	0.0082	1	04/21/21 08:50	04/21/21 14:36	129-00-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421012 **Lab ID: 40225185012** Collected: 04/14/21 07:11 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-120		1	04/21/21 08:50	04/21/21 14:36	321-60-8	
Terphenyl-d14 (S)	74	%	10-159		1	04/21/21 08:50	04/21/21 14:36	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 13:38	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 13:38	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 13:38	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 13:38	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 13:38	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 13:38	95-47-6	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		04/21/21 13:38	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/21/21 13:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		04/21/21 13:38	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**87.5**	mg/L	10.0	2.2	5		04/27/21 15:11	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**282**	mg/L	24.8	7.4	1		04/22/21 14:44		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**3.8**	mg/L	0.25	0.059	1		04/21/21 11:35		

Sample: 041421013 **Lab ID: 40225185013** Collected: 04/14/21 07:30 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Methane	**<0.66**	ug/L	2.8	0.66	1		04/22/21 10:42	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
	Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/21/21 06:11	04/22/21 08:48	7429-90-5	D3,P4
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/21/21 06:11	04/22/21 08:48	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/21/21 06:11	04/22/21 08:48	7440-50-8	D3
Iron, Dissolved	**<116**	ug/L	500	116	2	04/21/21 06:11	04/22/21 08:48	7439-89-6	D3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421013 **Lab ID: 40225185013** Collected: 04/14/21 07:30 Received: 04/15/21 08:05 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 Pace Analytical Services - Green Bay								
Manganese, Dissolved	**<2.4**	ug/L	8.1	2.4	2	04/21/21 06:11	04/22/21 08:48	7439-96-5	D3
Nickel, Dissolved	**<0.57**	ug/L	2.0	0.57	2	04/21/21 06:11	04/22/21 08:48	7440-02-0	D3
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/21/21 06:11	04/22/21 08:48	7440-22-4	D3
Vanadium, Dissolved	**0.75J**	ug/L	2.1	0.63	2	04/21/21 06:11	04/22/21 08:48	7440-62-2	D3
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/21/21 06:11	04/22/21 08:48	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**<0.012**	ug/L	0.058	0.012	1	04/21/21 08:50	04/21/21 14:55	120-12-7	
Benzo(a)pyrene	**<0.012**	ug/L	0.058	0.012	1	04/21/21 08:50	04/21/21 14:55	50-32-8	
Benzo(b)fluoranthene	**0.0077J**	ug/L	0.032	0.0064	1	04/21/21 08:50	04/21/21 14:55	205-99-2	
Benzo(g,h,i)perylene	**<0.0075**	ug/L	0.038	0.0075	1	04/21/21 08:50	04/21/21 14:55	191-24-2	
Chrysene	**<0.014**	ug/L	0.072	0.014	1	04/21/21 08:50	04/21/21 14:55	218-01-9	
Fluoranthene	**<0.012**	ug/L	0.059	0.012	1	04/21/21 08:50	04/21/21 14:55	206-44-0	
Fluorene	**<0.0089**	ug/L	0.044	0.0089	1	04/21/21 08:50	04/21/21 14:55	86-73-7	
Naphthalene	**<0.020**	ug/L	0.10	0.020	1	04/21/21 08:50	04/21/21 14:55	91-20-3	
Phenanthrene	**<0.015**	ug/L	0.077	0.015	1	04/21/21 08:50	04/21/21 14:55	85-01-8	
Pyrene	**0.0085J**	ug/L	0.043	0.0085	1	04/21/21 08:50	04/21/21 14:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	39-120		1	04/21/21 08:50	04/21/21 14:55	321-60-8	
Terphenyl-d14 (S)	84	%	10-159		1	04/21/21 08:50	04/21/21 14:55	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 13:57	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 13:57	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 13:57	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 13:57	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 13:57	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 13:57	95-47-6	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		04/21/21 13:57	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/21/21 13:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	111	%	70-130		1		04/21/21 13:57	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**887**	mg/L	100	22.2	50		04/27/21 15:26	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**136**	mg/L	24.8	7.4	1		04/22/21 14:45		

REPORT OF LABORATORY ANALYSIS

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

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421013 **Lab ID: 40225185013** Collected: 04/14/21 07:30 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.26**	mg/L	0.25	0.059	1		04/21/21 11:36		

Sample: 041421014 **Lab ID: 40225185014** Collected: 04/14/21 08:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**<0.66**	ug/L	2.8	0.66	1		04/22/21 10:49	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/21/21 06:11	04/22/21 09:15	7429-90-5	D3,P4
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/21/21 06:11	04/22/21 09:15	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/21/21 06:11	04/22/21 09:15	7440-50-8	D3
Iron, Dissolved	**<116**	ug/L	500	116	2	04/21/21 06:11	04/22/21 09:15	7439-89-6	D3
Manganese, Dissolved	**27.8**	ug/L	8.1	2.4	2	04/21/21 06:11	04/22/21 09:15	7439-96-5	
Nickel, Dissolved	**2.3**	ug/L	2.0	0.57	2	04/21/21 06:11	04/22/21 09:15	7440-02-0	
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/21/21 06:11	04/22/21 09:15	7440-22-4	D3
Vanadium, Dissolved	**<0.63**	ug/L	2.1	0.63	2	04/21/21 06:11	04/22/21 09:15	7440-62-2	D3
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/21/21 06:11	04/22/21 09:15	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**<0.0098**	ug/L	0.049	0.0098	1	04/21/21 08:50	04/21/21 15:13	120-12-7	
Benzo(a)pyrene	**0.014J**	ug/L	0.049	0.0098	1	04/21/21 08:50	04/21/21 15:13	50-32-8	
Benzo(b)fluoranthene	**0.022J**	ug/L	0.027	0.0054	1	04/21/21 08:50	04/21/21 15:13	205-99-2	
Benzo(g,h,i)perylene	**0.013J**	ug/L	0.032	0.0063	1	04/21/21 08:50	04/21/21 15:13	191-24-2	
Chrysene	**0.027J**	ug/L	0.061	0.012	1	04/21/21 08:50	04/21/21 15:13	218-01-9	
Fluoranthene	**0.054**	ug/L	0.050	0.010	1	04/21/21 08:50	04/21/21 15:13	206-44-0	
Fluorene	**<0.0074**	ug/L	0.037	0.0074	1	04/21/21 08:50	04/21/21 15:13	86-73-7	
Naphthalene	**<0.017**	ug/L	0.086	0.017	1	04/21/21 08:50	04/21/21 15:13	91-20-3	
Phenanthrene	**0.034J**	ug/L	0.064	0.013	1	04/21/21 08:50	04/21/21 15:13	85-01-8	
Pyrene	**0.044**	ug/L	0.036	0.0071	1	04/21/21 08:50	04/21/21 15:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	49	%	39-120		1	04/21/21 08:50	04/21/21 15:13	321-60-8	
Terphenyl-d14 (S)	68	%	10-159		1	04/21/21 08:50	04/21/21 15:13	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 14:16	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 14:16	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 14:16	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421014 **Lab ID: 40225185014** Collected: 04/14/21 08:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 14:16	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 14:16	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 14:16	95-47-6	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		04/21/21 14:16	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/21/21 14:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	110	%	70-130		1		04/21/21 14:16	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**553**	mg/L	40.0	8.9	20		04/27/21 15:46	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**191**	mg/L	24.8	7.4	1		04/22/21 14:49		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**2.3**	mg/L	0.25	0.059	1		04/21/21 11:36		

Sample: 041421015 **Lab ID: 40225185015** Collected: 04/14/21 08:27 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**6990**	ug/L	140	33.2	50		04/22/21 12:43	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 21:12	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 21:12	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 21:12	7440-50-8	D3
Iron, Dissolved	**48700**	ug/L	500	116	2	04/16/21 05:24	04/20/21 21:12	7439-89-6	
Manganese, Dissolved	**1720**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 21:12	7439-96-5	
Nickel, Dissolved	**0.97J**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 21:12	7440-02-0	D3
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 21:12	7440-22-4	D3
Vanadium, Dissolved	**3.8**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 21:12	7440-62-2	
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 21:12	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**<0.55**	ug/L	2.8	0.55	50	04/21/21 08:50	04/21/21 16:08	120-12-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421015 **Lab ID: 40225185015** Collected: 04/14/21 08:27 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Benzo(a)pyrene	**<0.55**	ug/L	2.8	0.55	50	04/21/21 08:50	04/21/21 16:08	50-32-8	
Benzo(b)fluoranthene	**<0.30**	ug/L	1.5	0.30	50	04/21/21 08:50	04/21/21 16:08	205-99-2	
Benzo(g,h,i)perylene	**<0.36**	ug/L	1.8	0.36	50	04/21/21 08:50	04/21/21 16:08	191-24-2	
Chrysene	**<0.69**	ug/L	3.4	0.69	50	04/21/21 08:50	04/21/21 16:08	218-01-9	
Fluoranthene	**<0.56**	ug/L	2.8	0.56	50	04/21/21 08:50	04/21/21 16:08	206-44-0	
Fluorene	**<0.42**	ug/L	2.1	0.42	50	04/21/21 08:50	04/21/21 16:08	86-73-7	
Naphthalene	**177**	ug/L	4.8	0.96	50	04/21/21 08:50	04/21/21 16:08	91-20-3	
Phenanthrene	**<0.73**	ug/L	3.6	0.73	50	04/21/21 08:50	04/21/21 16:08	85-01-8	
Pyrene	**<0.40**	ug/L	2.0	0.40	50	04/21/21 08:50	04/21/21 16:08	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-120		50	04/21/21 08:50	04/21/21 16:08	321-60-8	
Terphenyl-d14 (S)	68	%	10-159		50	04/21/21 08:50	04/21/21 16:08	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Benzene	**<0.59**	ug/L	2.0	0.59	2		04/21/21 10:30	71-43-2	
Ethylbenzene	**18.7**	ug/L	2.0	0.65	2		04/21/21 10:30	100-41-4	
Toluene	**<0.58**	ug/L	2.0	0.58	2		04/21/21 10:30	108-88-3	
Xylene (Total)	**136**	ug/L	6.0	2.1	2		04/21/21 10:30	1330-20-7	
m&p-Xylene	**71.8**	ug/L	4.0	1.4	2		04/21/21 10:30	179601-23-1	
o-Xylene	**64.6**	ug/L	2.0	0.70	2		04/21/21 10:30	95-47-6	
Surrogates									
Toluene-d8 (S)	92	%	70-130		2		04/21/21 10:30	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		2		04/21/21 10:30	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		2		04/21/21 10:30	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**0.48J**	mg/L	2.0	0.44	1		04/26/21 17:44	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**688**	mg/L	124	37.2	5		04/22/21 14:50		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.30**	mg/L	1.2	0.30	5		04/21/21 14:05		D3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421016 **Lab ID: 40225185016** Collected: 04/14/21 09:05 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**8770**	ug/L	280	66.5	100		04/22/21 12:50	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 21:19	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 21:19	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 21:19	7440-50-8	D3
Iron, Dissolved	**36800**	ug/L	500	116	2	04/16/21 05:24	04/20/21 21:19	7439-89-6	
Manganese, Dissolved	**627**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 21:19	7439-96-5	
Nickel, Dissolved	**<0.57**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 21:19	7440-02-0	D3
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 21:19	7440-22-4	D3
Vanadium, Dissolved	**1.3J**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 21:19	7440-62-2	D3
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 21:19	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**3.4J**	ug/L	5.4	1.1	100	04/21/21 08:50	04/21/21 16:27	120-12-7	
Benzo(a)pyrene	**<1.1**	ug/L	5.5	1.1	100	04/21/21 08:50	04/21/21 16:27	50-32-8	
Benzo(b)fluoranthene	**<0.60**	ug/L	3.0	0.60	100	04/21/21 08:50	04/21/21 16:27	205-99-2	
Benzo(g,h,i)perylene	**<0.71**	ug/L	3.5	0.71	100	04/21/21 08:50	04/21/21 16:27	191-24-2	
Chrysene	**<1.4**	ug/L	6.8	1.4	100	04/21/21 08:50	04/21/21 16:27	218-01-9	
Fluoranthene	**2.4J**	ug/L	5.6	1.1	100	04/21/21 08:50	04/21/21 16:27	206-44-0	
Fluorene	**19.6**	ug/L	4.2	0.83	100	04/21/21 08:50	04/21/21 16:27	86-73-7	
Naphthalene	**393**	ug/L	9.5	1.9	100	04/21/21 08:50	04/21/21 16:27	91-20-3	
Phenanthrene	**21.7**	ug/L	7.2	1.4	100	04/21/21 08:50	04/21/21 16:27	85-01-8	
Pyrene	**2.7J**	ug/L	4.0	0.80	100	04/21/21 08:50	04/21/21 16:27	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-120		100	04/21/21 08:50	04/21/21 16:27	321-60-8	
Terphenyl-d14 (S)	62	%	10-159		100	04/21/21 08:50	04/21/21 16:27	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**69.5**	ug/L	2.5	0.74	2.5		04/21/21 10:12	71-43-2	
Ethylbenzene	**59.2**	ug/L	2.5	0.81	2.5		04/21/21 10:12	100-41-4	
Toluene	**4.5**	ug/L	2.5	0.72	2.5		04/21/21 10:12	108-88-3	
Xylene (Total)	**50.0**	ug/L	7.5	2.6	2.5		04/21/21 10:12	1330-20-7	
m&p-Xylene	**11.3**	ug/L	5.0	1.8	2.5		04/21/21 10:12	179601-23-1	
o-Xylene	**38.7**	ug/L	2.5	0.87	2.5		04/21/21 10:12	95-47-6	
Surrogates									
Toluene-d8 (S)	91	%	70-130		2.5		04/21/21 10:12	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		2.5		04/21/21 10:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		2.5		04/21/21 10:12	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421016 **Lab ID: 40225185016** Collected: 04/14/21 09:05 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**0.94J**	mg/L	2.0	0.44	1		04/26/21 17:59	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**680**	mg/L	124	37.2	5		04/22/21 14:51		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.30**	mg/L	1.2	0.30	5		04/21/21 14:06		D3

Sample: 041421017 **Lab ID: 40225185017** Collected: 04/14/21 09:10 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**10400**	ug/L	280	66.5	100		04/22/21 12:57	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 21:40	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 21:40	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 21:40	7440-50-8	D3
Iron, Dissolved	**37800**	ug/L	500	116	2	04/16/21 05:24	04/20/21 21:40	7439-89-6	
Manganese, Dissolved	**643**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 21:40	7439-96-5	
Nickel, Dissolved	**2.1**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 21:40	7440-02-0	
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 21:40	7440-22-4	D3
Vanadium, Dissolved	**1.3J**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 21:40	7440-62-2	D3
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 21:40	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**3.1J**	ug/L	5.4	1.1	100	04/21/21 08:50	04/21/21 16:45	120-12-7	
Benzo(a)pyrene	**<1.1**	ug/L	5.5	1.1	100	04/21/21 08:50	04/21/21 16:45	50-32-8	
Benzo(b)fluoranthene	**<0.60**	ug/L	3.0	0.60	100	04/21/21 08:50	04/21/21 16:45	205-99-2	
Benzo(g,h,i)perylene	**<0.71**	ug/L	3.5	0.71	100	04/21/21 08:50	04/21/21 16:45	191-24-2	
Chrysene	**<1.4**	ug/L	6.8	1.4	100	04/21/21 08:50	04/21/21 16:45	218-01-9	
Fluoranthene	**2.2J**	ug/L	5.6	1.1	100	04/21/21 08:50	04/21/21 16:45	206-44-0	
Fluorene	**18.1**	ug/L	4.2	0.83	100	04/21/21 08:50	04/21/21 16:45	86-73-7	
Naphthalene	**368**	ug/L	9.5	1.9	100	04/21/21 08:50	04/21/21 16:45	91-20-3	
Phenanthrene	**19.9**	ug/L	7.2	1.4	100	04/21/21 08:50	04/21/21 16:45	85-01-8	
Pyrene	**2.4J**	ug/L	4.0	0.80	100	04/21/21 08:50	04/21/21 16:45	129-00-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421017 **Lab ID: 40225185017** Collected: 04/14/21 09:10 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Surrogates									
2-Fluorobiphenyl (S)	52	%	39-120		100	04/21/21 08:50	04/21/21 16:45	321-60-8	
Terphenyl-d14 (S)	62	%	10-159		100	04/21/21 08:50	04/21/21 16:45	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Benzene	**68.8**	ug/L	2.5	0.74	2.5		04/21/21 09:53	71-43-2	
Ethylbenzene	**58.7**	ug/L	2.5	0.81	2.5		04/21/21 09:53	100-41-4	
Toluene	**4.7**	ug/L	2.5	0.72	2.5		04/21/21 09:53	108-88-3	
Xylene (Total)	**49.7**	ug/L	7.5	2.6	2.5		04/21/21 09:53	1330-20-7	
m&p-Xylene	**12.3**	ug/L	5.0	1.8	2.5		04/21/21 09:53	179601-23-1	
o-Xylene	**37.5**	ug/L	2.5	0.87	2.5		04/21/21 09:53	95-47-6	
Surrogates									
Toluene-d8 (S)	92	%	70-130		2.5		04/21/21 09:53	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		2.5		04/21/21 09:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		2.5		04/21/21 09:53	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**0.92J**	mg/L	2.0	0.44	1		04/26/21 18:14	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**661**	mg/L	124	37.2	5		04/22/21 14:52		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		04/21/21 11:43		

Sample: 041421018 **Lab ID: 40225185018** Collected: 04/14/21 09:54 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Methane	**475**	ug/L	11.2	2.7	4		04/28/21 14:42	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
	Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 21:47	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 21:47	7440-36-0	D3
Copper, Dissolved	**8.0J**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 21:47	7440-50-8	D3
Iron, Dissolved	**9030**	ug/L	500	116	2	04/16/21 05:24	04/20/21 21:47	7439-89-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421018 **Lab ID: 40225185018** Collected: 04/14/21 09:54 Received: 04/15/21 08:05 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 Pace Analytical Services - Green Bay								
Manganese, Dissolved	**1170**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 21:47	7439-96-5	
Nickel, Dissolved	**11.1**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 21:47	7440-02-0	
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 21:47	7440-22-4	D3
Vanadium, Dissolved	**0.81J**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 21:47	7440-62-2	D3
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 21:47	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**0.023J**	ug/L	0.054	0.011	1	04/21/21 08:50	04/21/21 17:03	120-12-7	
Benzo(a)pyrene	**<0.011**	ug/L	0.054	0.011	1	04/21/21 08:50	04/21/21 17:03	50-32-8	
Benzo(b)fluoranthene	**<0.0059**	ug/L	0.030	0.0059	1	04/21/21 08:50	04/21/21 17:03	205-99-2	
Benzo(g,h,i)perylene	**<0.0070**	ug/L	0.035	0.0070	1	04/21/21 08:50	04/21/21 17:03	191-24-2	
Chrysene	**<0.013**	ug/L	0.067	0.013	1	04/21/21 08:50	04/21/21 17:03	218-01-9	
Fluoranthene	**0.046J**	ug/L	0.055	0.011	1	04/21/21 08:50	04/21/21 17:03	206-44-0	
Fluorene	**0.061**	ug/L	0.041	0.0082	1	04/21/21 08:50	04/21/21 17:03	86-73-7	
Naphthalene	**0.086J**	ug/L	0.094	0.019	1	04/21/21 08:50	04/21/21 17:03	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.071	0.014	1	04/21/21 08:50	04/21/21 17:03	85-01-8	
Pyrene	**0.046**	ug/L	0.039	0.0079	1	04/21/21 08:50	04/21/21 17:03	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	39-120		1	04/21/21 08:50	04/21/21 17:03	321-60-8	
Terphenyl-d14 (S)	69	%	10-159		1	04/21/21 08:50	04/21/21 17:03	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 16:29	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 16:29	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 16:29	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 16:29	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 16:29	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 16:29	95-47-6	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		04/21/21 16:29	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/21/21 16:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	113	%	70-130		1		04/21/21 16:29	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**252**	mg/L	40.0	8.9	20		04/27/21 16:00	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**387**	mg/L	124	37.2	5		04/22/21 14:55		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421018 **Lab ID: 40225185018** Collected: 04/14/21 09:54 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.30**	mg/L	0.25	0.059	1		04/21/21 11:44		

Sample: 041421019 **Lab ID: 40225185019** Collected: 04/14/21 10:31 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**7560**	ug/L	140	33.2	50		04/28/21 14:49	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 21:53	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 21:53	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 21:53	7440-50-8	D3
Iron, Dissolved	**26900**	ug/L	500	116	2	04/16/21 05:24	04/20/21 21:53	7439-89-6	
Manganese, Dissolved	**1090**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 21:53	7439-96-5	
Nickel, Dissolved	**0.97J**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 21:53	7440-02-0	D3
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 21:53	7440-22-4	D3
Vanadium, Dissolved	**<0.63**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 21:53	7440-62-2	D3
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 21:53	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**0.028J**	ug/L	0.056	0.011	1	04/21/21 08:50	04/21/21 17:22	120-12-7	
Benzo(a)pyrene	**<0.011**	ug/L	0.056	0.011	1	04/21/21 08:50	04/21/21 17:22	50-32-8	
Benzo(b)fluoranthene	**0.0078J**	ug/L	0.031	0.0061	1	04/21/21 08:50	04/21/21 17:22	205-99-2	
Benzo(g,h,i)perylene	**<0.0072**	ug/L	0.036	0.0072	1	04/21/21 08:50	04/21/21 17:22	191-24-2	
Chrysene	**<0.014**	ug/L	0.069	0.014	1	04/21/21 08:50	04/21/21 17:22	218-01-9	
Fluoranthene	**0.057**	ug/L	0.057	0.011	1	04/21/21 08:50	04/21/21 17:22	206-44-0	
Fluorene	**0.11**	ug/L	0.042	0.0085	1	04/21/21 08:50	04/21/21 17:22	86-73-7	
Naphthalene	**0.030J**	ug/L	0.097	0.020	1	04/21/21 08:50	04/21/21 17:22	91-20-3	
Phenanthrene	**0.12**	ug/L	0.073	0.015	1	04/21/21 08:50	04/21/21 17:22	85-01-8	
Pyrene	**0.058**	ug/L	0.041	0.0081	1	04/21/21 08:50	04/21/21 17:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54	%	39-120		1	04/21/21 08:50	04/21/21 17:22	321-60-8	
Terphenyl-d14 (S)	75	%	10-159		1	04/21/21 08:50	04/21/21 17:22	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 16:48	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 16:48	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 16:48	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421019 **Lab ID: 40225185019** Collected: 04/14/21 10:31 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 16:48	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 16:48	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 16:48	95-47-6	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		04/21/21 16:48	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/21/21 16:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	111	%	70-130		1		04/21/21 16:48	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**1.4J**	mg/L	2.0	0.44	1		04/26/21 18:44	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**859**	mg/L	124	37.2	5		04/22/21 14:56		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		04/21/21 11:44		

Sample: 041421020 **Lab ID: 40225185020** Collected: 04/14/21 11:07 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**7560**	ug/L	140	33.2	50		04/28/21 14:56	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 22:00	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 22:00	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 22:00	7440-50-8	D3
Iron, Dissolved	**9430**	ug/L	500	116	2	04/16/21 05:24	04/20/21 22:00	7439-89-6	
Manganese, Dissolved	**854**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 22:00	7439-96-5	
Nickel, Dissolved	**1.2J**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 22:00	7440-02-0	D3
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 22:00	7440-22-4	D3
Vanadium, Dissolved	**0.71J**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 22:00	7440-62-2	D3
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 22:00	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**<0.011**	ug/L	0.055	0.011	1	04/21/21 08:50	04/21/21 17:40	120-12-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421020 **Lab ID: 40225185020** Collected: 04/14/21 11:07 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Benzo(a)pyrene	**<0.011**	ug/L	0.055	0.011	1	04/21/21 08:50	04/21/21 17:40	50-32-8	
Benzo(b)fluoranthene	**<0.0060**	ug/L	0.030	0.0060	1	04/21/21 08:50	04/21/21 17:40	205-99-2	
Benzo(g,h,i)perylene	**<0.0071**	ug/L	0.036	0.0071	1	04/21/21 08:50	04/21/21 17:40	191-24-2	
Chrysene	**<0.014**	ug/L	0.069	0.014	1	04/21/21 08:50	04/21/21 17:40	218-01-9	
Fluoranthene	**<0.011**	ug/L	0.056	0.011	1	04/21/21 08:50	04/21/21 17:40	206-44-0	
Fluorene	**<0.0084**	ug/L	0.042	0.0084	1	04/21/21 08:50	04/21/21 17:40	86-73-7	
Naphthalene	**<0.019**	ug/L	0.096	0.019	1	04/21/21 08:50	04/21/21 17:40	91-20-3	
Phenanthrene	**<0.015**	ug/L	0.073	0.015	1	04/21/21 08:50	04/21/21 17:40	85-01-8	
Pyrene	**<0.0081**	ug/L	0.040	0.0081	1	04/21/21 08:50	04/21/21 17:40	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	39-120		1	04/21/21 08:50	04/21/21 17:40	321-60-8	
Terphenyl-d14 (S)	64	%	10-159		1	04/21/21 08:50	04/21/21 17:40	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 09:16	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 09:16	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 09:16	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 09:16	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 09:16	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 09:16	95-47-6	
Surrogates									
Toluene-d8 (S)	92	%	70-130		1		04/21/21 09:16	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/21/21 09:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		04/21/21 09:16	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**<0.44**	mg/L	2.0	0.44	1		04/26/21 18:58	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**433**	mg/L	124	37.2	5		04/22/21 14:57		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		04/21/21 11:45		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421021 **Lab ID: 40225185021** Collected: 04/14/21 12:27 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**4030**	ug/L	70.0	16.6	25		04/28/21 15:02	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<117**	ug/L	500	117	2	04/16/21 05:24	04/20/21 22:07	7429-90-5	D3
Antimony, Dissolved	**<0.30**	ug/L	2.0	0.30	2	04/16/21 05:24	04/20/21 22:07	7440-36-0	D3
Copper, Dissolved	**<3.8**	ug/L	12.7	3.8	2	04/16/21 05:24	04/20/21 22:07	7440-50-8	D3
Iron, Dissolved	**19100**	ug/L	500	116	2	04/16/21 05:24	04/20/21 22:07	7439-89-6	
Manganese, Dissolved	**230**	ug/L	8.1	2.4	2	04/16/21 05:24	04/20/21 22:07	7439-96-5	
Nickel, Dissolved	**1.8J**	ug/L	2.0	0.57	2	04/16/21 05:24	04/20/21 22:07	7440-02-0	D3
Silver, Dissolved	**<0.25**	ug/L	1.0	0.25	2	04/16/21 05:24	04/20/21 22:07	7440-22-4	D3
Vanadium, Dissolved	**<0.63**	ug/L	2.1	0.63	2	04/16/21 05:24	04/20/21 22:07	7440-62-2	D3
Zinc, Dissolved	**<20.7**	ug/L	68.9	20.7	2	04/16/21 05:24	04/20/21 22:07	7440-66-6	D3
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**<0.011**	ug/L	0.054	0.011	1	04/21/21 08:50	04/21/21 17:58	120-12-7	
Benzo(a)pyrene	**<0.011**	ug/L	0.055	0.011	1	04/21/21 08:50	04/21/21 17:58	50-32-8	
Benzo(b)fluoranthene	**<0.0060**	ug/L	0.030	0.0060	1	04/21/21 08:50	04/21/21 17:58	205-99-2	
Benzo(g,h,i)perylene	**<0.0071**	ug/L	0.035	0.0071	1	04/21/21 08:50	04/21/21 17:58	191-24-2	
Chrysene	**<0.014**	ug/L	0.068	0.014	1	04/21/21 08:50	04/21/21 17:58	218-01-9	
Fluoranthene	**<0.011**	ug/L	0.056	0.011	1	04/21/21 08:50	04/21/21 17:58	206-44-0	
Fluorene	**<0.0083**	ug/L	0.042	0.0083	1	04/21/21 08:50	04/21/21 17:58	86-73-7	
Naphthalene	**<0.019**	ug/L	0.095	0.019	1	04/21/21 08:50	04/21/21 17:58	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.072	0.014	1	04/21/21 08:50	04/21/21 17:58	85-01-8	
Pyrene	**<0.0080**	ug/L	0.040	0.0080	1	04/21/21 08:50	04/21/21 17:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	39-120		1	04/21/21 08:50	04/21/21 17:58	321-60-8	
Terphenyl-d14 (S)	64	%	10-159		1	04/21/21 08:50	04/21/21 17:58	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/21/21 00:43	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/21/21 00:43	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/21/21 00:43	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/21/21 00:43	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/21/21 00:43	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/21/21 00:43	95-47-6	
Surrogates									
Toluene-d8 (S)	91	%	70-130		1		04/21/21 00:43	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/21/21 00:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		04/21/21 00:43	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421021 **Lab ID: 40225185021** Collected: 04/14/21 12:27 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**1.8J**	mg/L	2.0	0.44	1		04/26/21 19:58	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**220**	mg/L	124	37.2	5		04/22/21 14:58		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		04/21/21 11:46		

Sample: 041421028 **Lab ID: 40225185022** Collected: 04/14/21 16:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**<0.66**	ug/L	2.8	0.66	1		04/28/21 14:35	74-82-8	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Aluminum, Dissolved	**<58.7**	ug/L	250	58.7	1	04/16/21 05:24	04/21/21 15:09	7429-90-5	
Antimony, Dissolved	**<0.15**	ug/L	1.0	0.15	1	04/16/21 05:24	04/21/21 15:09	7440-36-0	
Copper, Dissolved	**<1.9**	ug/L	6.4	1.9	1	04/16/21 05:24	04/21/21 15:09	7440-50-8	
Iron, Dissolved	**<58.0**	ug/L	250	58.0	1	04/16/21 05:24	04/21/21 15:09	7439-89-6	
Manganese, Dissolved	**<1.2**	ug/L	4.0	1.2	1	04/16/21 05:24	04/21/21 15:09	7439-96-5	
Nickel, Dissolved	**<0.28**	ug/L	1.0	0.28	1	04/16/21 05:24	04/21/21 15:09	7440-02-0	
Silver, Dissolved	**<0.13**	ug/L	0.50	0.13	1	04/16/21 05:24	04/21/21 15:09	7440-22-4	
Vanadium, Dissolved	**<0.32**	ug/L	1.0	0.32	1	04/16/21 05:24	04/21/21 15:09	7440-62-2	
Zinc, Dissolved	**<10.3**	ug/L	34.4	10.3	1	04/16/21 05:24	04/21/21 15:09	7440-66-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Anthracene	**<0.012**	ug/L	0.060	0.012	1	04/21/21 12:31	04/22/21 11:41	120-12-7	
Benzo(a)pyrene	**<0.012**	ug/L	0.061	0.012	1	04/21/21 12:31	04/22/21 11:41	50-32-8	
Benzo(b)fluoranthene	**<0.0066**	ug/L	0.033	0.0066	1	04/21/21 12:31	04/22/21 11:41	205-99-2	
Benzo(g,h,i)perylene	**<0.0078**	ug/L	0.039	0.0078	1	04/21/21 12:31	04/22/21 11:41	191-24-2	
Chrysene	**<0.015**	ug/L	0.075	0.015	1	04/21/21 12:31	04/22/21 11:41	218-01-9	
Fluoranthene	**<0.012**	ug/L	0.062	0.012	1	04/21/21 12:31	04/22/21 11:41	206-44-0	
Fluorene	**<0.0092**	ug/L	0.046	0.0092	1	04/21/21 12:31	04/22/21 11:41	86-73-7	
Naphthalene	**<0.021**	ug/L	0.11	0.021	1	04/21/21 12:31	04/22/21 11:41	91-20-3	
Phenanthrene	**<0.016**	ug/L	0.080	0.016	1	04/21/21 12:31	04/22/21 11:41	85-01-8	
Pyrene	**<0.0088**	ug/L	0.044	0.0088	1	04/21/21 12:31	04/22/21 11:41	129-00-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421028 **Lab ID: 40225185022** Collected: 04/14/21 16:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Surrogates									
2-Fluorobiphenyl (S)	53	%	39-120		1	04/21/21 12:31	04/22/21 11:41	321-60-8	
Terphenyl-d14 (S)	86	%	10-159		1	04/21/21 12:31	04/22/21 11:41	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/20/21 19:06	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/20/21 19:06	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/20/21 19:06	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/20/21 19:06	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/20/21 19:06	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/20/21 19:06	95-47-6	
Surrogates									
Toluene-d8 (S)	92	%	70-130		1		04/20/21 19:06	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/20/21 19:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	110	%	70-130		1		04/20/21 19:06	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**<0.44**	mg/L	2.0	0.44	1		04/26/21 20:13	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**<7.4**	mg/L	24.8	7.4	1		04/22/21 15:02		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		04/21/21 11:46		

Sample: 041421029 **Lab ID: 40225185023** Collected: 04/14/21 00:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/20/21 19:44	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/20/21 19:44	100-41-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/20/21 19:44	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		04/20/21 19:44	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/20/21 19:44	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/20/21 19:44	95-47-6	
Surrogates									
Toluene-d8 (S)	92	%	70-130		1		04/20/21 19:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Sample: 041421029 **Lab ID: 40225185023** Collected: 04/14/21 00:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/20/21 19:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	111	%	70-130		1		04/20/21 19:44	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 383140
QC Batch Method: EPA 8015B Modified
Analysis Method: EPA 8015B Modified
Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006, 40225185007, 40225185008, 40225185009, 40225185010, 40225185011, 40225185012, 40225185013, 40225185014, 40225185015, 40225185016, 40225185017

METHOD BLANK: 2210047 Matrix: Water
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006, 40225185007, 40225185008, 40225185009, 40225185010, 40225185011, 40225185012, 40225185013, 40225185014, 40225185015, 40225185016, 40225185017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.66	2.8	04/22/21 07:27	

LABORATORY CONTROL SAMPLE & LCSD: 2210048 2210049

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	28.9	28.4	101	100	80-121	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2210050 2210051

Parameter	Units	40225185004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	253	114	114	579	600	285	304	10-200	4	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 383668 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185018, 40225185019, 40225185020, 40225185021, 40225185022

METHOD BLANK: 2213134 Matrix: Water
Associated Lab Samples: 40225185018, 40225185019, 40225185020, 40225185021, 40225185022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.66	2.8	04/28/21 10:01	

LABORATORY CONTROL SAMPLE & LCSD: 2213135 2213136

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	26.6	26.6	93	93	80-121	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2213137 2213138

Parameter	Units	40225831007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	1800	714	714	3020	3270	170	205	10-200	8	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 382630
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006, 40225185007, 40225185008, 40225185009, 40225185010, 40225185011, 40225185012, 40225185015, 40225185016, 40225185017, 40225185018, 40225185019, 40225185020, 40225185021, 40225185022

METHOD BLANK: 2206953 Matrix: Water
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006, 40225185007, 40225185008, 40225185009, 40225185010, 40225185011, 40225185012, 40225185015, 40225185016, 40225185017, 40225185018, 40225185019, 40225185020, 40225185021, 40225185022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<58.7	250	04/20/21 18:56	
Antimony, Dissolved	ug/L	<0.15	1.0	04/20/21 18:56	
Copper, Dissolved	ug/L	<1.9	6.4	04/20/21 18:56	
Iron, Dissolved	ug/L	79.8J	250	04/20/21 18:56	
Manganese, Dissolved	ug/L	<1.2	4.0	04/20/21 18:56	
Nickel, Dissolved	ug/L	<0.28	1.0	04/20/21 18:56	
Silver, Dissolved	ug/L	<0.13	0.50	04/20/21 18:56	
Vanadium, Dissolved	ug/L	<0.32	1.0	04/20/21 18:56	
Zinc, Dissolved	ug/L	<10.3	34.4	04/20/21 18:56	

LABORATORY CONTROL SAMPLE: 2206954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	4850	97	80-120	
Antimony, Dissolved	ug/L	500	510	102	80-120	
Copper, Dissolved	ug/L	500	511	102	80-120	
Iron, Dissolved	ug/L	5000	5010	100	80-120	
Manganese, Dissolved	ug/L	500	478	96	80-120	
Nickel, Dissolved	ug/L	500	494	99	80-120	
Silver, Dissolved	ug/L	250	248	99	80-120	
Vanadium, Dissolved	ug/L	500	487	97	80-120	
Zinc, Dissolved	ug/L	500	513	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206955 2206956

Parameter	Units	40225185004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	<117	5000	5000	4790	4720	95	94	75-125	1	20	
Antimony, Dissolved	ug/L	1.4J	500	500	505	498	101	99	75-125	1	20	
Copper, Dissolved	ug/L	<3.8	500	500	497	484	99	97	75-125	3	20	
Iron, Dissolved	ug/L	3010	5000	5000	8020	7770	100	95	75-125	3	20	
Manganese, Dissolved	ug/L	1830	500	500	2360	2260	107	86	75-125	5	20	
Nickel, Dissolved	ug/L	3.1	500	500	491	478	98	95	75-125	3	20	
Silver, Dissolved	ug/L	0.27J	250	250	239	234	95	94	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206955 2206956

Parameter	Units	40225185004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vanadium, Dissolved	ug/L	3.7	500	500	493	480	98	95	75-125	3	20	
Zinc, Dissolved	ug/L	<20.7	500	500	513	562	102	112	75-125	9	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 382995
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185013, 40225185014

METHOD BLANK: 2209254 Matrix: Water
Associated Lab Samples: 40225185013, 40225185014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<58.7	250	04/22/21 06:25	
Antimony, Dissolved	ug/L	<0.15	1.0	04/22/21 06:25	
Copper, Dissolved	ug/L	<1.9	6.4	04/22/21 06:25	
Iron, Dissolved	ug/L	<58.0	250	04/22/21 06:25	
Manganese, Dissolved	ug/L	<1.2	4.0	04/22/21 06:25	
Nickel, Dissolved	ug/L	<0.28	1.0	04/22/21 06:25	
Silver, Dissolved	ug/L	<0.13	0.50	04/22/21 06:25	
Vanadium, Dissolved	ug/L	<0.32	1.0	04/22/21 06:25	
Zinc, Dissolved	ug/L	<10.3	34.4	04/22/21 06:25	

LABORATORY CONTROL SAMPLE: 2209255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	4950	99	80-120	
Antimony, Dissolved	ug/L	500	517	103	80-120	
Copper, Dissolved	ug/L	500	510	102	80-120	
Iron, Dissolved	ug/L	5000	5030	101	80-120	
Manganese, Dissolved	ug/L	500	487	97	80-120	
Nickel, Dissolved	ug/L	500	498	100	80-120	
Silver, Dissolved	ug/L	250	257	103	80-120	
Vanadium, Dissolved	ug/L	500	503	101	80-120	
Zinc, Dissolved	ug/L	500	504	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2209256 2209257

Parameter	Units	40225032007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	<117	5000	5000	4710	4860	94	97	75-125	3	20	
Antimony, Dissolved	ug/L	0.69J	500	500	495	517	99	103	75-125	4	20	
Copper, Dissolved	ug/L	<3.8	500	500	472	497	94	99	75-125	5	20	
Iron, Dissolved	ug/L	11600	5000	5000	16000	17000	87	108	75-125	6	20	
Manganese, Dissolved	ug/L	238	500	500	686	725	90	97	75-125	5	20	
Nickel, Dissolved	ug/L	2.3	500	500	473	496	94	99	75-125	5	20	
Silver, Dissolved	ug/L	0.29J	250	250	234	244	94	98	75-125	4	20	
Vanadium, Dissolved	ug/L	1.7J	500	500	478	500	95	100	75-125	5	20	
Zinc, Dissolved	ug/L	<20.7	500	500	488	505	97	100	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 382608
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185021, 40225185022, 40225185023

METHOD BLANK: 2206729 Matrix: Water
Associated Lab Samples: 40225185021, 40225185022, 40225185023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.30	1.0	04/20/21 15:41	
Ethylbenzene	ug/L	<0.33	1.0	04/20/21 15:41	
m&p-Xylene	ug/L	<0.70	2.0	04/20/21 15:41	
o-Xylene	ug/L	<0.35	1.0	04/20/21 15:41	
Toluene	ug/L	<0.29	1.0	04/20/21 15:41	
Xylene (Total)	ug/L	<1.0	3.0	04/20/21 15:41	
1,2-Dichlorobenzene-d4 (S)	%	109	70-130	04/20/21 15:41	
4-Bromofluorobenzene (S)	%	97	70-130	04/20/21 15:41	
Toluene-d8 (S)	%	92	70-130	04/20/21 15:41	

LABORATORY CONTROL SAMPLE: 2206730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	56.4	113	70-132	
Ethylbenzene	ug/L	50	56.3	113	80-123	
m&p-Xylene	ug/L	100	110	110	70-130	
o-Xylene	ug/L	50	54.4	109	70-130	
Toluene	ug/L	50	52.9	106	80-121	
Xylene (Total)	ug/L	150	164	110	70-130	
1,2-Dichlorobenzene-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2209291 2209292

Parameter	Units	40225185022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.30	50	50	57.6	57.7	115	115	70-132	0	20	
Ethylbenzene	ug/L	<0.33	50	50	56.4	56.5	113	113	80-123	0	20	
m&p-Xylene	ug/L	<0.70	100	100	113	112	113	112	70-130	1	20	
o-Xylene	ug/L	<0.35	50	50	55.2	55.0	110	110	70-130	0	20	
Toluene	ug/L	<0.29	50	50	52.7	52.2	105	104	80-121	1	20	
Xylene (Total)	ug/L	<1.0	150	150	168	167	112	111	70-130	1	20	
1,2-Dichlorobenzene-d4 (S)	%						106	107	70-130			
4-Bromofluorobenzene (S)	%						97	99	70-130			
Toluene-d8 (S)	%						93	92	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 382631
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006, 40225185007, 40225185008, 40225185009, 40225185010, 40225185011, 40225185012, 40225185013, 40225185014, 40225185015, 40225185016, 40225185017, 40225185018, 40225185019, 40225185020

METHOD BLANK: 2206957 Matrix: Water
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006, 40225185007, 40225185008, 40225185009, 40225185010, 40225185011, 40225185012, 40225185013, 40225185014, 40225185015, 40225185016, 40225185017, 40225185018, 40225185019, 40225185020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.30	1.0	04/21/21 06:46	
Ethylbenzene	ug/L	<0.33	1.0	04/21/21 06:46	
m&p-Xylene	ug/L	<0.70	2.0	04/21/21 06:46	
o-Xylene	ug/L	<0.35	1.0	04/21/21 06:46	
Toluene	ug/L	<0.29	1.0	04/21/21 06:46	
Xylene (Total)	ug/L	<1.0	3.0	04/21/21 06:46	
1,2-Dichlorobenzene-d4 (S)	%	108	70-130	04/21/21 06:46	
4-Bromofluorobenzene (S)	%	97	70-130	04/21/21 06:46	
Toluene-d8 (S)	%	92	70-130	04/21/21 06:46	

LABORATORY CONTROL SAMPLE: 2206958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	58.1	116	70-132	
Ethylbenzene	ug/L	50	55.4	111	80-123	
m&p-Xylene	ug/L	100	108	108	70-130	
o-Xylene	ug/L	50	53.2	106	70-130	
Toluene	ug/L	50	52.0	104	80-121	
Xylene (Total)	ug/L	150	162	108	70-130	
1,2-Dichlorobenzene-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			91	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206959 2206960

Parameter	Units	40225185004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	16.6	50	50	69.2	66.9	105	101	70-132	3	20	
Ethylbenzene	ug/L	3.0	50	50	54.3	53.8	103	102	80-123	1	20	
m&p-Xylene	ug/L	1.9J	100	100	105	105	103	103	70-130	0	20	
o-Xylene	ug/L	1.2	50	50	51.2	50.7	100	99	70-130	1	20	
Toluene	ug/L	1.2	50	50	49.0	48.2	96	94	80-121	2	20	
Xylene (Total)	ug/L	3.1	150	150	156	156	102	102	70-130	0	20	
1,2-Dichlorobenzene-d4 (S)	%						108	107	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206959 2206960

Parameter	Units	40225185004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Bromofluorobenzene (S)	%						97	98	70-130			
Toluene-d8 (S)	%						92	93	70-130			

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 382742
QC Batch Method: EPA 3510
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Water PAH
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006, 40225185007, 40225185008

METHOD BLANK: 2207918 Matrix: Water
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006, 40225185007, 40225185008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	<0.010	0.052	04/19/21 14:31	
Benzo(a)pyrene	ug/L	<0.011	0.053	04/19/21 14:31	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	04/19/21 14:31	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	04/19/21 14:31	
Chrysene	ug/L	<0.013	0.065	04/19/21 14:31	
Fluoranthene	ug/L	<0.011	0.053	04/19/21 14:31	
Fluorene	ug/L	<0.0080	0.040	04/19/21 14:31	
Naphthalene	ug/L	<0.018	0.092	04/19/21 14:31	
Phenanthrene	ug/L	<0.014	0.069	04/19/21 14:31	
Pyrene	ug/L	<0.0076	0.038	04/19/21 14:31	
2-Fluorobiphenyl (S)	%	60	39-120	04/19/21 14:31	
Terphenyl-d14 (S)	%	91	10-159	04/19/21 14:31	

LABORATORY CONTROL SAMPLE: 2207919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Anthracene	ug/L	2	1.4	71	57-110	
Benzo(a)pyrene	ug/L	2	1.4	69	70-120	L2
Benzo(b)fluoranthene	ug/L	2	1.5	75	54-97	
Benzo(g,h,i)perylene	ug/L	2	0.59	29	26-74	
Chrysene	ug/L	2	1.5	76	75-151	
Fluoranthene	ug/L	2	1.5	75	63-120	
Fluorene	ug/L	2	1.4	69	53-120	
Naphthalene	ug/L	2	1.3	67	41-120	
Phenanthrene	ug/L	2	1.5	77	47-100	
Pyrene	ug/L	2	1.6	79	70-128	
2-Fluorobiphenyl (S)	%			71	39-120	
Terphenyl-d14 (S)	%			91	10-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207920 2207921

Parameter	Units	40225185004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Anthracene	ug/L	0.036J	2.3	2.3	1.4	1.4	61	62	16-114	2	36	
Benzo(a)pyrene	ug/L	<0.012	2.3	2.3	1.4	1.2	59	55	10-120	9	37	
Benzo(b)fluoranthene	ug/L	0.0067J	2.3	2.3	1.5	1.3	64	59	10-97	8	36	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207920 2207921

Parameter	Units	40225185004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzo(g,h,i)perylene	ug/L	<0.0075	2.3	2.3	1.1	0.96	49	42	10-74	14	45	
Chrysene	ug/L	<0.014	2.3	2.3	1.5	1.5	68	65	10-161	4	30	
Fluoranthene	ug/L	0.032J	2.3	2.3	1.5	1.5	65	64	35-120	2	33	
Fluorene	ug/L	0.079	2.3	2.3	1.3	1.4	54	59	17-120	8	33	
Naphthalene	ug/L	1.4	2.3	2.3	1.4	2.0	0	26	24-120	33	30	M1,R1
Phenanthrene	ug/L	0.016J	2.3	2.3	1.4	1.5	62	64	15-100	3	30	
Pyrene	ug/L	0.022J	2.3	2.3	1.6	1.6	69	68	14-137	1	31	
2-Fluorobiphenyl (S)	%						58	72	39-120			
Terphenyl-d14 (S)	%						75	92	10-159			

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 382900
QC Batch Method: EPA 3510
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Water PAH
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185009, 40225185010, 40225185011

METHOD BLANK: 2208703 Matrix: Water
Associated Lab Samples: 40225185009, 40225185010, 40225185011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	<0.010	0.052	04/20/21 12:55	
Benzo(a)pyrene	ug/L	<0.011	0.053	04/20/21 12:55	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	04/20/21 12:55	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	04/20/21 12:55	
Chrysene	ug/L	<0.013	0.065	04/20/21 12:55	
Fluoranthene	ug/L	<0.011	0.053	04/20/21 12:55	
Fluorene	ug/L	<0.0080	0.040	04/20/21 12:55	
Naphthalene	ug/L	<0.018	0.092	04/20/21 12:55	
Phenanthrene	ug/L	<0.014	0.069	04/20/21 12:55	
Pyrene	ug/L	<0.0076	0.038	04/20/21 12:55	
2-Fluorobiphenyl (S)	%	63	39-120	04/20/21 12:55	
Terphenyl-d14 (S)	%	82	10-159	04/20/21 12:55	

LABORATORY CONTROL SAMPLE & LCSD: 2208704 2208705

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Anthracene	ug/L	2	1.4	1.3	71	63	57-110	12	28	
Benzo(a)pyrene	ug/L	2	1.4	1.2	71	62	70-120	13	20	L2
Benzo(b)fluoranthene	ug/L	2	1.5	1.3	75	66	54-97	13	21	
Benzo(g,h,i)perylene	ug/L	2	1.1	0.47	54	23	26-74	80	42	L2,R1
Chrysene	ug/L	2	1.6	1.4	79	71	75-151	10	20	L2
Fluoranthene	ug/L	2	1.5	1.4	76	68	63-120	12	20	
Fluorene	ug/L	2	1.4	1.2	70	62	53-120	13	26	
Naphthalene	ug/L	2	1.4	1.2	68	60	41-120	12	24	
Phenanthrene	ug/L	2	1.5	1.4	77	69	47-100	11	22	
Pyrene	ug/L	2	1.6	1.4	78	70	70-128	10	20	
2-Fluorobiphenyl (S)	%				71	62	39-120			
Terphenyl-d14 (S)	%				86	80	10-159			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 383015
QC Batch Method: EPA 3510
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Water PAH
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185012, 40225185013, 40225185014, 40225185015, 40225185016, 40225185017, 40225185018, 40225185019, 40225185020, 40225185021

METHOD BLANK: 2209333 Matrix: Water
Associated Lab Samples: 40225185012, 40225185013, 40225185014, 40225185015, 40225185016, 40225185017, 40225185018, 40225185019, 40225185020, 40225185021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	<0.010	0.052	04/21/21 12:28	
Benzo(a)pyrene	ug/L	<0.011	0.053	04/21/21 12:28	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	04/21/21 12:28	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	04/21/21 12:28	
Chrysene	ug/L	<0.013	0.065	04/21/21 12:28	
Fluoranthene	ug/L	<0.011	0.053	04/21/21 12:28	
Fluorene	ug/L	<0.0080	0.040	04/21/21 12:28	
Naphthalene	ug/L	<0.018	0.092	04/21/21 12:28	
Phenanthrene	ug/L	<0.014	0.069	04/21/21 12:28	
Pyrene	ug/L	<0.0076	0.038	04/21/21 12:28	
2-Fluorobiphenyl (S)	%	55	39-120	04/21/21 12:28	
Terphenyl-d14 (S)	%	81	10-159	04/21/21 12:28	

LABORATORY CONTROL SAMPLE & LCSD: 2209334 2209335

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Anthracene	ug/L	2	1.5	1.4	73	72	57-110	2	28	
Benzo(a)pyrene	ug/L	2	1.4	1.4	72	70	70-120	2	20	
Benzo(b)fluoranthene	ug/L	2	1.5	1.5	74	73	54-97	1	21	
Benzo(g,h,i)perylene	ug/L	2	0.96	1.1	48	53	26-74	9	42	
Chrysene	ug/L	2	1.6	1.6	81	80	75-151	1	20	
Fluoranthene	ug/L	2	1.6	1.5	79	77	63-120	2	20	
Fluorene	ug/L	2	1.4	1.4	71	70	53-120	2	26	
Naphthalene	ug/L	2	1.4	1.4	70	68	41-120	2	24	
Phenanthrene	ug/L	2	1.6	1.5	78	77	47-100	2	22	
Pyrene	ug/L	2	1.6	1.6	81	80	70-128	2	20	
2-Fluorobiphenyl (S)	%				72	71	39-120			
Terphenyl-d14 (S)	%				92	90	10-159			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 383016
QC Batch Method: EPA 3510
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Water PAH
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185022

METHOD BLANK: 2209336 Matrix: Water
Associated Lab Samples: 40225185022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	<0.010	0.052	04/21/21 15:32	
Benzo(a)pyrene	ug/L	<0.011	0.053	04/21/21 15:32	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	04/21/21 15:32	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	04/21/21 15:32	
Chrysene	ug/L	<0.013	0.065	04/21/21 15:32	
Fluoranthene	ug/L	<0.011	0.053	04/21/21 15:32	
Fluorene	ug/L	<0.0080	0.040	04/21/21 15:32	
Naphthalene	ug/L	<0.018	0.092	04/21/21 15:32	
Phenanthrene	ug/L	<0.014	0.069	04/21/21 15:32	
Pyrene	ug/L	<0.0076	0.038	04/21/21 15:32	
2-Fluorobiphenyl (S)	%	63	39-120	04/21/21 15:32	
Terphenyl-d14 (S)	%	97	10-159	04/21/21 15:32	

LABORATORY CONTROL SAMPLE & LCSD: 2209337 2209338

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Anthracene	ug/L	2	1.5	1.6	77	78	57-110	1	28	
Benzo(a)pyrene	ug/L	2	1.6	1.8	79	89	70-120	12	20	
Benzo(b)fluoranthene	ug/L	2	1.6	1.7	82	83	54-97	2	21	
Benzo(g,h,i)perylene	ug/L	2	1.2	1.1	59	56	26-74	5	42	
Chrysene	ug/L	2	1.7	1.7	87	86	75-151	0	20	
Fluoranthene	ug/L	2	1.7	1.7	83	84	63-120	1	20	
Fluorene	ug/L	2	1.5	1.5	74	75	53-120	1	26	
Naphthalene	ug/L	2	1.4	1.4	70	71	41-120	3	24	
Phenanthrene	ug/L	2	1.7	1.6	83	82	47-100	1	22	
Pyrene	ug/L	2	1.8	1.7	88	87	70-128	2	20	
2-Fluorobiphenyl (S)	%				76	75	39-120			
Terphenyl-d14 (S)	%				99	96	10-159			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 383360 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006

METHOD BLANK: 2211701 Matrix: Water
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	04/26/21 14:11	

LABORATORY CONTROL SAMPLE: 2211702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.1	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2211703 2211704

Parameter	Units	40225119001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	302J	10000	10000	11300	12200	110	119	90-110	8	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2211705 2211706

Parameter	Units	40225185004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	52.8	100	100	159	158	106	105	90-110	1	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 383361
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185007, 40225185008, 40225185009, 40225185010, 40225185011, 40225185012, 40225185013, 40225185014, 40225185015, 40225185016, 40225185017, 40225185018, 40225185019, 40225185020, 40225185021, 40225185022

METHOD BLANK: 2211707
Matrix: Water
Associated Lab Samples: 40225185007, 40225185008, 40225185009, 40225185010, 40225185011, 40225185012, 40225185013, 40225185014, 40225185015, 40225185016, 40225185017, 40225185018, 40225185019, 40225185020, 40225185021, 40225185022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	04/26/21 10:09	

LABORATORY CONTROL SAMPLE: 2211708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.0	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2211709 2211710

Parameter	Units	40225185007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	93.0	200	200	317	315	112	111	90-110	1	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2211711 2211712

Parameter	Units	40225195003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	110	400	400	553	552	111	110	90-110	0	15	M0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 383115 | Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 | Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006, 40225185007, 40225185008, 40225185009, 40225185010, 40225185011

METHOD BLANK: 2209980 Matrix: Water
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006, 40225185007, 40225185008, 40225185009, 40225185010, 40225185011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	24.8	04/22/21 14:02	

LABORATORY CONTROL SAMPLE: 2209981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	97.2	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2209982 2209983

Parameter	Units	40225185004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	365	200	200	561	560	98	98	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2209984 2209985

Parameter	Units	40225260001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	464	200	200	655	660	96	98	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 383116
QC Batch Method: EPA 310.2
Analysis Method: EPA 310.2
Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185012, 40225185013, 40225185014, 40225185015, 40225185016, 40225185017, 40225185018, 40225185019, 40225185020, 40225185021, 40225185022

METHOD BLANK: 2209986 Matrix: Water
Associated Lab Samples: 40225185012, 40225185013, 40225185014, 40225185015, 40225185016, 40225185017, 40225185018, 40225185019, 40225185020, 40225185021, 40225185022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	24.8	04/22/21 14:38	

LABORATORY CONTROL SAMPLE: 2209987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	100	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2209988 2209989

Parameter	Units	40225185017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	661	500	500	1170	1170	102	101	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2209990 2209991

Parameter	Units	40225351015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	181	200	200	325	325	72	72	90-110	0	20	M0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 382974
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006, 40225185007, 40225185008, 40225185009, 40225185010, 40225185011, 40225185012, 40225185013, 40225185014, 40225185015, 40225185016

METHOD BLANK: 2209122 Matrix: Water
Associated Lab Samples: 40225185001, 40225185002, 40225185003, 40225185004, 40225185005, 40225185006, 40225185007, 40225185008, 40225185009, 40225185010, 40225185011, 40225185012, 40225185013, 40225185014, 40225185015, 40225185016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	04/21/21 11:19	

LABORATORY CONTROL SAMPLE: 2209123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2209124 2209125

Parameter	Units	40225185004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.5	2.5	99	99	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2209126 2209127

Parameter	Units	40225185016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.30	12.5	12.5	11.6	11.7	93	93	90-110	0	20	

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QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

QC Batch: 382975
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225185017, 40225185018, 40225185019, 40225185020, 40225185021, 40225185022

METHOD BLANK: 2209130 Matrix: Water
Associated Lab Samples: 40225185017, 40225185018, 40225185019, 40225185020, 40225185021, 40225185022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	04/21/21 11:42	

LABORATORY CONTROL SAMPLE: 2209131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2209132 2209133

Parameter	Units	40225259003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.25	2.5	2.5	2.4	2.4	96	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2209134 2209135

Parameter	Units	40225333005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.5	2.5	101	101	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 382962

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

[1] Four compounds failed low in the LCSD, there was no chance to reextract within sample hold time.

Batch: 383051

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

Batch: 383123

[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.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P4	Sample field preservation does not meet EPA or method recommendations for this analysis.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40225185001	**041321001**	EPA 8015B Modified	383140		
40225185002	**041321002**	EPA 8015B Modified	383140		
40225185003	**041321003**	EPA 8015B Modified	383140		
40225185004	**041321004**	EPA 8015B Modified	383140		
40225185005	**041321005**	EPA 8015B Modified	383140		
40225185006	**041321006**	EPA 8015B Modified	383140		
40225185007	**041321007**	EPA 8015B Modified	383140		
40225185008	**041321008**	EPA 8015B Modified	383140		
40225185009	**041321009**	EPA 8015B Modified	383140		
40225185010	**041321010**	EPA 8015B Modified	383140		
40225185011	**041321011**	EPA 8015B Modified	383140		
40225185012	**041421012**	EPA 8015B Modified	383140		
40225185013	**041421013**	EPA 8015B Modified	383140		
40225185014	**041421014**	EPA 8015B Modified	383140		
40225185015	**041421015**	EPA 8015B Modified	383140		
40225185016	**041421016**	EPA 8015B Modified	383140		
40225185017	**041421017**	EPA 8015B Modified	383140		
40225185018	**041421018**	EPA 8015B Modified	383668		
40225185019	**041421019**	EPA 8015B Modified	383668		
40225185020	**041421020**	EPA 8015B Modified	383668		
40225185021	**041421021**	EPA 8015B Modified	383668		
40225185022	**041421028**	EPA 8015B Modified	383668		
40225185001	**041321001**	EPA 3010	382630	EPA 6020	382691
40225185002	**041321002**	EPA 3010	382630	EPA 6020	382691
40225185003	**041321003**	EPA 3010	382630	EPA 6020	382691
40225185004	**041321004**	EPA 3010	382630	EPA 6020	382691
40225185005	**041321005**	EPA 3010	382630	EPA 6020	382691
40225185006	**041321006**	EPA 3010	382630	EPA 6020	382691
40225185007	**041321007**	EPA 3010	382630	EPA 6020	382691
40225185008	**041321008**	EPA 3010	382630	EPA 6020	382691
40225185009	**041321009**	EPA 3010	382630	EPA 6020	382691
40225185010	**041321010**	EPA 3010	382630	EPA 6020	382691
40225185011	**041321011**	EPA 3010	382630	EPA 6020	382691
40225185012	**041421012**	EPA 3010	382630	EPA 6020	382691
40225185013	**041421013**	EPA 3010	382995	EPA 6020	383084
40225185014	**041421014**	EPA 3010	382995	EPA 6020	383084
40225185015	**041421015**	EPA 3010	382630	EPA 6020	382691
40225185016	**041421016**	EPA 3010	382630	EPA 6020	382691
40225185017	**041421017**	EPA 3010	382630	EPA 6020	382691
40225185018	**041421018**	EPA 3010	382630	EPA 6020	382691
40225185019	**041421019**	EPA 3010	382630	EPA 6020	382691
40225185020	**041421020**	EPA 3010	382630	EPA 6020	382691
40225185021	**041421021**	EPA 3010	382630	EPA 6020	382691
40225185022	**041421028**	EPA 3010	382630	EPA 6020	382691
40225185001	**041321001**	EPA 3510	382742	EPA 8270E by SIM	382810
40225185002	**041321002**	EPA 3510	382742	EPA 8270E by SIM	382810

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40225185003	**041321003**	EPA 3510	382742	EPA 8270E by SIM	382810
40225185004	**041321004**	EPA 3510	382742	EPA 8270E by SIM	382810
40225185005	**041321005**	EPA 3510	382742	EPA 8270E by SIM	382810
40225185006	**041321006**	EPA 3510	382742	EPA 8270E by SIM	382810
40225185007	**041321007**	EPA 3510	382742	EPA 8270E by SIM	382810
40225185008	**041321008**	EPA 3510	382742	EPA 8270E by SIM	382810
40225185009	**041321009**	EPA 3510	382900	EPA 8270E by SIM	382962
40225185010	**041321010**	EPA 3510	382900	EPA 8270E by SIM	382962
40225185011	**041321011**	EPA 3510	382900	EPA 8270E by SIM	382962
40225185012	**041421012**	EPA 3510	383015	EPA 8270E by SIM	383051
40225185013	**041421013**	EPA 3510	383015	EPA 8270E by SIM	383051
40225185014	**041421014**	EPA 3510	383015	EPA 8270E by SIM	383051
40225185015	**041421015**	EPA 3510	383015	EPA 8270E by SIM	383051
40225185016	**041421016**	EPA 3510	383015	EPA 8270E by SIM	383051
40225185017	**041421017**	EPA 3510	383015	EPA 8270E by SIM	383051
40225185018	**041421018**	EPA 3510	383015	EPA 8270E by SIM	383051
40225185019	**041421019**	EPA 3510	383015	EPA 8270E by SIM	383051
40225185020	**041421020**	EPA 3510	383015	EPA 8270E by SIM	383051
40225185021	**041421021**	EPA 3510	383015	EPA 8270E by SIM	383051
40225185022	**041421028**	EPA 3510	383016	EPA 8270E by SIM	383123
40225185001	**041321001**	EPA 8260	382631		
40225185002	**041321002**	EPA 8260	382631		
40225185003	**041321003**	EPA 8260	382631		
40225185004	**041321004**	EPA 8260	382631		
40225185005	**041321005**	EPA 8260	382631		
40225185006	**041321006**	EPA 8260	382631		
40225185007	**041321007**	EPA 8260	382631		
40225185008	**041321008**	EPA 8260	382631		
40225185009	**041321009**	EPA 8260	382631		
40225185010	**041321010**	EPA 8260	382631		
40225185011	**041321011**	EPA 8260	382631		
40225185012	**041421012**	EPA 8260	382631		
40225185013	**041421013**	EPA 8260	382631		
40225185014	**041421014**	EPA 8260	382631		
40225185015	**041421015**	EPA 8260	382631		
40225185016	**041421016**	EPA 8260	382631		
40225185017	**041421017**	EPA 8260	382631		
40225185018	**041421018**	EPA 8260	382631		
40225185019	**041421019**	EPA 8260	382631		
40225185020	**041421020**	EPA 8260	382631		
40225185021	**041421021**	EPA 8260	382608		
40225185022	**041421028**	EPA 8260	382608		
40225185023	**041421029**	EPA 8260	382608		
40225185001	**041321001**	EPA 300.0	383360		
40225185002	**041321002**	EPA 300.0	383360		
40225185003	**041321003**	EPA 300.0	383360		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40225185004	**041321004**	EPA 300.0	383360		
40225185005	**041321005**	EPA 300.0	383360		
40225185006	**041321006**	EPA 300.0	383360		
40225185007	**041321007**	EPA 300.0	383361		
40225185008	**041321008**	EPA 300.0	383361		
40225185009	**041321009**	EPA 300.0	383361		
40225185010	**041321010**	EPA 300.0	383361		
40225185011	**041321011**	EPA 300.0	383361		
40225185012	**041421012**	EPA 300.0	383361		
40225185013	**041421013**	EPA 300.0	383361		
40225185014	**041421014**	EPA 300.0	383361		
40225185015	**041421015**	EPA 300.0	383361		
40225185016	**041421016**	EPA 300.0	383361		
40225185017	**041421017**	EPA 300.0	383361		
40225185018	**041421018**	EPA 300.0	383361		
40225185019	**041421019**	EPA 300.0	383361		
40225185020	**041421020**	EPA 300.0	383361		
40225185021	**041421021**	EPA 300.0	383361		
40225185022	**041421028**	EPA 300.0	383361		
40225185001	**041321001**	EPA 310.2	383115		
40225185002	**041321002**	EPA 310.2	383115		
40225185003	**041321003**	EPA 310.2	383115		
40225185004	**041321004**	EPA 310.2	383115		
40225185005	**041321005**	EPA 310.2	383115		
40225185006	**041321006**	EPA 310.2	383115		
40225185007	**041321007**	EPA 310.2	383115		
40225185008	**041321008**	EPA 310.2	383115		
40225185009	**041321009**	EPA 310.2	383115		
40225185010	**041321010**	EPA 310.2	383115		
40225185011	**041321011**	EPA 310.2	383115		
40225185012	**041421012**	EPA 310.2	383116		
40225185013	**041421013**	EPA 310.2	383116		
40225185014	**041421014**	EPA 310.2	383116		
40225185015	**041421015**	EPA 310.2	383116		
40225185016	**041421016**	EPA 310.2	383116		
40225185017	**041421017**	EPA 310.2	383116		
40225185018	**041421018**	EPA 310.2	383116		
40225185019	**041421019**	EPA 310.2	383116		
40225185020	**041421020**	EPA 310.2	383116		
40225185021	**041421021**	EPA 310.2	383116		
40225185022	**041421028**	EPA 310.2	383116		
40225185001	**041321001**	EPA 353.2	382974		
40225185002	**041321002**	EPA 353.2	382974		
40225185003	**041321003**	EPA 353.2	382974		
40225185004	**041321004**	EPA 353.2	382974		
40225185005	**041321005**	EPA 353.2	382974		
40225185006	**041321006**	EPA 353.2	382974		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225185

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40225185007	**041321007**	EPA 353.2	382974		
40225185008	**041321008**	EPA 353.2	382974		
40225185009	**041321009**	EPA 353.2	382974		
40225185010	**041321010**	EPA 353.2	382974		
40225185011	**041321011**	EPA 353.2	382974		
40225185012	**041421012**	EPA 353.2	382974		
40225185013	**041421013**	EPA 353.2	382974		
40225185014	**041421014**	EPA 353.2	382974		
40225185015	**041421015**	EPA 353.2	382974		
40225185016	**041421016**	EPA 353.2	382974		
40225185017	**041421017**	EPA 353.2	382975		
40225185018	**041421018**	EPA 353.2	382975		
40225185019	**041421019**	EPA 353.2	382975		
40225185020	**041421020**	EPA 353.2	382975		
40225185021	**041421021**	EPA 353.2	382975		
40225185022	**041421028**	EPA 353.2	382975		

73068-0421-001

40225185

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

QC: KAN

Page: 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Ramboll	Report To:	~~Glasford, Duncan~~ GDSDATA@RAMBOLL.COM	Attention:	ACCOUNTS PAYABLE
Address:	234 W. Florida St, 5th Floor	Copy To:	MARCUS.BYKER@RAMBOLL.COM	Company Name:	WEC
Milwaukee, WI 53204				Address:	PO BOX 19800 GREEN BAY
Email:	~~dglasford@ramboll.com~~ GDSDATA@RAMBOLL.COM	Purchase Order #:		Pace Quote:	
Phone: 262-719-4512	Fax:	Project Name:	73068 Marinette Former MGP	Pace Project Manager:	brian.basten@pacelabs.com,
Requested Due Date:	STD	Project #:		Pace Profile #:	3569 #4

Regulatory Agency
State / Location
WI

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID: One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N): Diss Metals — Y

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	BTEX by 8260	PAH by 8270 SIM (low vol)	Diss Metals (Al,Sb,Cu,Fe,Mn)	Nitrate + Nitrite	Sulfate & Alkalinity	Methane by 8015B	Benzene+Ethylbenzene	PAH Short List	Trip BLANK		Residual Chlorine (Y/N)	
1	041321001	W	G			4.13	1200		11	3	1	1	6						X	X	X	X	X	X				001		
2	041321002						1240		11	3	1	1	6						X	X	X	X	X	X				002		
3	041321003						1317		11	3	1	1	6						X	X	X	X	X	X				003		
4	041321004						1400		33	9	3	3	18						X	X	X	X	X	X				004		ADDITIONAL VOLUME FOR MS/MSD
5	041321005						1502		11	3	1	1	6						X	X	X	X	X	X				005		
6	041321006						1533		11	3	1	1	6						X	X	X	X	X	X				006		
7	041321007						1614		11	3	1	1	6						X	X	X	X	X	X				007		
8	041321008						~~1600~~ 1655		11	3	1	1	6						X	X	X	X	X	X				008		1655
9	041321009						1700		11	3	1	1	6						X	X	X	X	X	X				009		1700
10	041321010						~~18~~ 1747		11	3	1	1	6						X	X	X	X	X	X				010		1747
11	041321011						1800		11	3	1	1	6						X	X	X	X	X	X				011		
12	041421012					4.14	711		11	3	1	1	6						X	X	X	X	X	X				012		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
PAH Short list=Benzo(a)pyrene,Benzo(b)fluoranthene,Chrysene & Napht	[signature] / Ramboll	4/15/21	0805	Susan K [signature] / Pace	4/15/21	0805	4.5/4	Y	N	Y
Dis Metals										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed:				

73068-0421-001
40225185

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

QC: KRN

SEE PAGE 1 OF 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Ramboll	Report To:	Glasford, Duncan	Attention:	
Address:	234 W. Florida St, 5th Floor	Copy To:		Company Name:	WEC
	Milwaukee, WI 53204			Address:	
Email:	dglasford@ramboll.com	Purchase Order #:		Pace Quote:	
Phone:	262-719-4512 Fax:	Project Name:	73068 ~~Marinette~~ Former MGP	Pace Project Manager:	brian.basten@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	3569 #4

Regulatory Agency
State / Location
WI

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N): Diss Metals — Y

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	BTEX by 8260	PAH by 8270 SIM (low vol)	Diss Metals (Al,Sb,Cu,Fe,Mn)	Nitrate + Nitrite	Sulfate & Alkalinity	Methane by 8015B	Benzene+Ethylbenzene	PAH Short List	Trip BLANK		Residual Chlorine (Y/N)	
1	041421013	WT	G			4.14	730		11	3	1	1	6						X	X	X	X	X	X				013		METALS NOT FILTERED
2	041421014	↓	↓			↓	800		10	3	1	0	6					—	X	X		X	X	X				014		~~METALS NOT FILTERED~~ DG
3	041421015						822		11	3	1	1	6						X	X	X	X	X	X				015		~~METALS NOT FILTERED~~ DG
4	041421016						905		11	3	1	1	6						X	X	X	X	X	X				016		
5	041421017						910		11	3	1	1	6						X	X	X	X	X	X				017		
6	041421018						954		11	3	1	1	6						X	X	X	X	X	X				018		
7	041421019						1031		11	3	1	1	6						X	X	X	X	X	X				019		
8	041421020						1107		11	3	1	1	6						X	X	X	X	X	X				020		
9	041421021						1227		11	3	1	1	6						X	X	X	X	X	X				021		
10	041421028	↓	↓			↓	1600		11	3	1	1	6						X	X	X	X	X	X				022		
11	041421029	—	—				—		2				2														X	023		
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
PAH Short list=Benzo(a)pyrene,Benzo(b)fluoranthene,Chrysene & Napht	[signature] / Ramboll	4/15/21	0805	[signature] / Pace	4/15/21	0805	4.6/4	Y	N	Y
Dis Metals										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Client Name: Ramboll

Sample Preservation Receipt Form

Project # 40225185

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

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A

Initial when completed: SLW Date/ Time:

Lab Lot# of pH paper: 10D3601 Lab Std #ID of preservation (if pH adjusted):

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	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
001						2				1		1	1				6											X			X		2.5 / 5 / 10
002						2				1		1	1				6										1	X			X		2.5 / 5 / 10
003						2				1		1	1				6											X			X		2.5 / 5 / 10
004						6				3		3	3				18											X			X		2.5 / 5 / 10
005						2				1		1	1				6											X			X		2.5 / 5 / 10
006						2				1		1	1				6											X			X		2.5 / 5 / 10
007						2				1		1	1				6										1	X			X		2.5 / 5 / 10
008						2				1		1	1				6											X			X		2.5 / 5 / 10
009						2				1		1	1				6											X			X		2.5 / 5 / 10
010						2				1		1	1				6											X			X		2.5 / 5 / 10
011						2				1		1	1				6											X			X		2.5 / 5 / 10
012						2				1		1	1				6											X			X		2.5 / 5 / 10
013						2				1		1	1				6											X			X		2.5 / 5 / 10
014						2				1			1				6											X					2.5 / 5 / 10
015						2				1		1	1				6											X			X		2.5 / 5 / 10
016						2				1		1	1				6											X			X		2.5 / 5 / 10
017						2				1		1	1				6										2	X			X		2.5 / 5 / 10
018						2				1		1	1				6											X			X		2.5 / 5 / 10
019						2				1		1	1				6											X			X		2.5 / 5 / 10
020						2				1		1	1				6										1	X			X		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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

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

Sample Preservation Receipt Form

Client Name: Ramboll   Project #: 40225185

Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	Glass								Plastic					Vials						Jars				General									
021						2				1		1	1				6											X			X		2.5 / 5 / 10
022						2				1		1	1				6											X			X		2.5 / 5 / 10
023																	2																2.5 / 5 / 10
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4/15/21 SEW

Page 2 of 3

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 26Mar2020
	Document No.: **ENV-FRM-GBAY-0014-Rev.00**	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Ramboll

Project #:

WO# : 40225185

40225185

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☑ Client ☐ Pace Other: _____

Tracking #: _____

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

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

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

Thermometer Used SR - 104 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4,5,4 /Corr: 4,5,4

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 4-15-21 /Initials: SKW

Labeled By Initials: WJ

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2. Proj. # 4-15-21 SKW
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☑Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12.
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 463		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

4/15/21 SKW

Page ___ of ___

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

April 23, 2021

Scott Woods
Ramboll

,

RE: Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

Dear Scott Woods:

Enclosed are the analytical results for sample(s) received by the laboratory on April 15, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Marcus Byker, Ramboll
NRT Data, Ramboll
Eric Plante, Ramboll
Abigail Small, Ramboll
Steve Wiskes, Ramboll

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

CERTIFICATIONS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40225186001	**041421022**	Water	04/14/21 13:00	04/15/21 08:05
40225186002	**041421023**	Water	04/14/21 13:29	04/15/21 08:05
40225186003	**041421024**	Water	04/14/21 14:12	04/15/21 08:05
40225186004	**041421025**	Water	04/14/21 14:45	04/15/21 08:05
40225186005	**041421026**	Water	04/14/21 15:10	04/15/21 08:05
40225186006	**041421027**	Water	04/14/21 15:15	04/15/21 08:05
40225186007	**041421030**	Water	04/14/21 00:00	04/15/21 08:05

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

SAMPLE ANALYTE COUNT

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40225186001	**041421022**	EPA 8270E by SIM	RJN	6	PASI-G
		EPA 8260	LAP	5	PASI-G
40225186002	**041421023**	EPA 8270E by SIM	RJN	6	PASI-G
		EPA 8260	LAP	5	PASI-G
40225186003	**041421024**	EPA 8270E by SIM	RJN	6	PASI-G
		EPA 8260	LAP	5	PASI-G
40225186004	**041421025**	EPA 8270E by SIM	RJN	6	PASI-G
		EPA 8260	LAP	5	PASI-G
40225186005	**041421026**	EPA 8270E by SIM	RJN	6	PASI-G
		EPA 8260	LAP	5	PASI-G
40225186006	**041421027**	EPA 8270E by SIM	RJN	6	PASI-G
		EPA 8260	LAP	5	PASI-G
40225186007	**041421030**	EPA 8260	LAP	5	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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

PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 23, 2021

General Information:
6 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 383016

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- 041421025 (Lab ID: 40225186004)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 383016

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

Method: **EPA 8260**
Description: 8260 MSV UST
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 23, 2021

General Information:
7 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 383026

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40225420002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2209609)
  - Ethylbenzene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2209610)
  - Benzene
  - Ethylbenzene

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

Sample: 041421022 **Lab ID: 40225186001** Collected: 04/14/21 13:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Benzo(a)pyrene	**<0.012**	ug/L	0.059	0.012	1	04/21/21 12:31	04/22/21 12:00	50-32-8	
Benzo(b)fluoranthene	**0.0091J**	ug/L	0.032	0.0065	1	04/21/21 12:31	04/22/21 12:00	205-99-2	
Chrysene	**<0.015**	ug/L	0.074	0.015	1	04/21/21 12:31	04/22/21 12:00	218-01-9	
Naphthalene	**<0.021**	ug/L	0.10	0.021	1	04/21/21 12:31	04/22/21 12:00	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-120		1	04/21/21 12:31	04/22/21 12:00	321-60-8	
Terphenyl-d14 (S)	82	%	10-159		1	04/21/21 12:31	04/22/21 12:00	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/22/21 06:57	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/22/21 06:57	100-41-4	
Surrogates									
Toluene-d8 (S)	91	%	70-130		1		04/22/21 06:57	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		04/22/21 06:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	111	%	70-130		1		04/22/21 06:57	2199-69-1	

Sample: 041421023 **Lab ID: 40225186002** Collected: 04/14/21 13:29 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Benzo(a)pyrene	**<1.2**	ug/L	6.0	1.2	100	04/21/21 12:31	04/22/21 12:18	50-32-8	
Benzo(b)fluoranthene	**<0.66**	ug/L	3.3	0.66	100	04/21/21 12:31	04/22/21 12:18	205-99-2	
Chrysene	**<1.5**	ug/L	7.5	1.5	100	04/21/21 12:31	04/22/21 12:18	218-01-9	
Naphthalene	**461**	ug/L	10.5	2.1	100	04/21/21 12:31	04/22/21 12:18	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	59	%	39-120		100	04/21/21 12:31	04/22/21 12:18	321-60-8	
Terphenyl-d14 (S)	69	%	10-159		100	04/21/21 12:31	04/22/21 12:18	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**165**	ug/L	2.0	0.59	2		04/22/21 07:35	71-43-2	
Ethylbenzene	**161**	ug/L	2.0	0.65	2		04/22/21 07:35	100-41-4	
Surrogates									
Toluene-d8 (S)	89	%	70-130		2		04/22/21 07:35	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		2		04/22/21 07:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		2		04/22/21 07:35	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

Sample: 041421024 **Lab ID: 40225186003** Collected: 04/14/21 14:12 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Benzo(a)pyrene	**<1.2**	ug/L	6.2	1.2	100	04/21/21 12:31	04/22/21 12:37	50-32-8	
Benzo(b)fluoranthene	**<0.68**	ug/L	3.4	0.68	100	04/21/21 12:31	04/22/21 12:37	205-99-2	
Chrysene	**<1.5**	ug/L	7.7	1.5	100	04/21/21 12:31	04/22/21 12:37	218-01-9	
Naphthalene	**557**	ug/L	10.8	2.2	100	04/21/21 12:31	04/22/21 12:37	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-120		100	04/21/21 12:31	04/22/21 12:37	321-60-8	
Terphenyl-d14 (S)	61	%	10-159		100	04/21/21 12:31	04/22/21 12:37	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**340**	ug/L	2.5	0.74	2.5		04/22/21 07:54	71-43-2	
Ethylbenzene	**90.9**	ug/L	2.5	0.81	2.5		04/22/21 07:54	100-41-4	
Surrogates									
Toluene-d8 (S)	91	%	70-130		2.5		04/22/21 07:54	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		2.5		04/22/21 07:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		2.5		04/22/21 07:54	2199-69-1	

Sample: 041421025 **Lab ID: 40225186004** Collected: 04/14/21 14:45 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Benzo(a)pyrene	**<10.4**	ug/L	52.1	10.4	1000	04/21/21 12:31	04/22/21 12:55	50-32-8	
Benzo(b)fluoranthene	**<5.7**	ug/L	28.4	5.7	1000	04/21/21 12:31	04/22/21 12:55	205-99-2	
Chrysene	**<12.9**	ug/L	64.5	12.9	1000	04/21/21 12:31	04/22/21 12:55	218-01-9	
Naphthalene	**3360**	ug/L	90.6	18.1	1000	04/21/21 12:31	04/22/21 12:55	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	0	%	39-120		1000	04/21/21 12:31	04/22/21 12:55	321-60-8	S4
Terphenyl-d14 (S)	0	%	10-159		1000	04/21/21 12:31	04/22/21 12:55	1718-51-0	S4
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**4520**	ug/L	100	29.5	100		04/22/21 09:09	71-43-2	
Ethylbenzene	**312**	ug/L	10.0	3.3	10		04/22/21 08:12	100-41-4	
Surrogates									
Toluene-d8 (S)	92	%	70-130		10		04/22/21 08:12	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		10		04/22/21 08:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		10		04/22/21 08:12	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

Sample: 041421026 **Lab ID: 40225186005** Collected: 04/14/21 15:10 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Benzo(a)pyrene	**<0.62**	ug/L	3.1	0.62	50	04/21/21 12:31	04/22/21 13:13	50-32-8	
Benzo(b)fluoranthene	**0.38J**	ug/L	1.7	0.34	50	04/21/21 12:31	04/22/21 13:13	205-99-2	
Chrysene	**<0.77**	ug/L	3.8	0.77	50	04/21/21 12:31	04/22/21 13:13	218-01-9	
Naphthalene	**354**	ug/L	5.4	1.1	50	04/21/21 12:31	04/22/21 13:13	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	50	%	39-120		50	04/21/21 12:31	04/22/21 13:13	321-60-8	
Terphenyl-d14 (S)	54	%	10-159		50	04/21/21 12:31	04/22/21 13:13	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**411**	ug/L	2.5	0.74	2.5		04/22/21 08:31	71-43-2	
Ethylbenzene	**329**	ug/L	2.5	0.81	2.5		04/22/21 08:31	100-41-4	
Surrogates									
Toluene-d8 (S)	92	%	70-130		2.5		04/22/21 08:31	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		2.5		04/22/21 08:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		2.5		04/22/21 08:31	2199-69-1	

Sample: 041421027 **Lab ID: 40225186006** Collected: 04/14/21 15:15 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Benzo(a)pyrene	**0.48J**	ug/L	0.58	0.12	10	04/21/21 12:31	04/22/21 13:32	50-32-8	
Benzo(b)fluoranthene	**0.50**	ug/L	0.32	0.063	10	04/21/21 12:31	04/22/21 13:32	205-99-2	
Chrysene	**0.82**	ug/L	0.72	0.14	10	04/21/21 12:31	04/22/21 13:32	218-01-9	
Naphthalene	**33.0**	ug/L	1.0	0.20	10	04/21/21 12:31	04/22/21 13:32	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	53	%	39-120		10	04/21/21 12:31	04/22/21 13:32	321-60-8	
Terphenyl-d14 (S)	62	%	10-159		10	04/21/21 12:31	04/22/21 13:32	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**546**	ug/L	10.0	3.0	10		04/22/21 08:50	71-43-2	
Ethylbenzene	**441**	ug/L	10.0	3.3	10		04/22/21 08:50	100-41-4	
Surrogates									
Toluene-d8 (S)	91	%	70-130		10		04/22/21 08:50	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		10		04/22/21 08:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		10		04/22/21 08:50	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

Sample: 041421030 **Lab ID: 40225186007** Collected: 04/14/21 00:00 Received: 04/15/21 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/22/21 10:42	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/22/21 10:42	100-41-4	
Surrogates									
Toluene-d8 (S)	92	%	70-130		1		04/22/21 10:42	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		04/22/21 10:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	110	%	70-130		1		04/22/21 10:42	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

QC Batch: 383026
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225186001, 40225186002, 40225186003, 40225186004, 40225186005, 40225186006, 40225186007

METHOD BLANK: 2209361 Matrix: Water
Associated Lab Samples: 40225186001, 40225186002, 40225186003, 40225186004, 40225186005, 40225186006, 40225186007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.30	1.0	04/22/21 06:39	
Ethylbenzene	ug/L	<0.33	1.0	04/22/21 06:39	
1,2-Dichlorobenzene-d4 (S)	%	109	70-130	04/22/21 06:39	
4-Bromofluorobenzene (S)	%	98	70-130	04/22/21 06:39	
Toluene-d8 (S)	%	92	70-130	04/22/21 06:39	

LABORATORY CONTROL SAMPLE: 2209362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	57.8	116	70-132	
Ethylbenzene	ug/L	50	55.3	111	80-123	
1,2-Dichlorobenzene-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			91	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2209609 2209610

Parameter	Units	40225420002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.30	50	50	65.6	52.0	131	104	70-132	23	20	R1
Ethylbenzene	ug/L	<0.33	50	50	62.5	49.1	125	98	80-123	24	20	M1,R1
1,2-Dichlorobenzene-d4 (S)	%						105	107	70-130			
4-Bromofluorobenzene (S)	%						99	101	70-130			
Toluene-d8 (S)	%						92	91	70-130			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

QC Batch: 383016
QC Batch Method: EPA 3510
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Water PAH
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225186001, 40225186002, 40225186003, 40225186004, 40225186005, 40225186006

METHOD BLANK: 2209336 Matrix: Water
Associated Lab Samples: 40225186001, 40225186002, 40225186003, 40225186004, 40225186005, 40225186006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzo(a)pyrene	ug/L	<0.011	0.053	04/21/21 15:32	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	04/21/21 15:32	
Chrysene	ug/L	<0.013	0.065	04/21/21 15:32	
Naphthalene	ug/L	<0.018	0.092	04/21/21 15:32	
2-Fluorobiphenyl (S)	%	63	39-120	04/21/21 15:32	
Terphenyl-d14 (S)	%	97	10-159	04/21/21 15:32	

LABORATORY CONTROL SAMPLE & LCSD: 2209337 2209338

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzo(a)pyrene	ug/L	2	1.6	1.8	79	89	70-120	12	20	
Benzo(b)fluoranthene	ug/L	2	1.6	1.7	82	83	54-97	2	21	
Chrysene	ug/L	2	1.7	1.7	87	86	75-151	0	20	
Naphthalene	ug/L	2	1.4	1.4	70	71	41-120	3	24	
2-Fluorobiphenyl (S)	%				76	75	39-120			
Terphenyl-d14 (S)	%				99	96	10-159			

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: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 383123

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

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 73068 MARINETTE FORMER MGP
Pace Project No.: 40225186

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40225186001	**041421022**	EPA 3510	383016	EPA 8270E by SIM	383123
40225186002	**041421023**	EPA 3510	383016	EPA 8270E by SIM	383123
40225186003	**041421024**	EPA 3510	383016	EPA 8270E by SIM	383123
40225186004	**041421025**	EPA 3510	383016	EPA 8270E by SIM	383123
40225186005	**041421026**	EPA 3510	383016	EPA 8270E by SIM	383123
40225186006	**041421027**	EPA 3510	383016	EPA 8270E by SIM	383123
40225186001	**041421022**	EPA 8260	383026		
40225186002	**041421023**	EPA 8260	383026		
40225186003	**041421024**	EPA 8260	383026		
40225186004	**041421025**	EPA 8260	383026		
40225186005	**041421026**	EPA 8260	383026		
40225186006	**041421027**	EPA 8260	383026		
40225186007	**041421030**	EPA 8260	383026		

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

73068-0421-002
40225186

QC: 1 4 N

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Ramboll	Report To: ~~Glasford, Duncan~~	GDSDATA@RAMBOLL.COM	Attention:	ACCOUNTS PAYABLE
Address:	234 W. Florida St, 5th Floor	Copy To:	MARCUS.BYKER@RAMBOLL.COM	Company Name:	WEC
	Milwaukee, WI 53204			Address:	PO Box 19800 GREENBAY, WI
Email:	~~dglasford@ramboll.com~~ GDSDATA@RAMBOLL.COM	Purchase Order #:		Pace Quote:	
Phone:	262-719-4512 Fax:	Project Name:	73068 Marinette Former MGP	Pace Project Manager:	brian.basten@pacelabs.com,
Requested Due Date:	STD	Project #:		Pace Profile #:	3569 #4

Regulatory Agency	
State / Location	WI

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	BTEX by 8260	PAH by 8270 SIM (low vol)	Diss Metals (Al,Sb,Cu,Fe,Mn) Y	Nitrate + Nitrite	Sulfate & Alkalinity	Methane by 8015B	Benzene+Ethylbenzene	PAH Short List	Trip BLANK	Residual Chlorine (Y/N)	
1	041421022	WT	G			4/14	1300		5	2			3												X	X			001
2	041421023						1329		5	2			3												X	X			002
3	041421024						1412		5	2			3												X	X			003
4	041421025						1445		5	2			3												X	X			004
5	041421026						1510		5	2			3												X	X			005
6	041421027						1515		5	2			3												X	X			006
7	041421030	-	-				-		2				2														X		007
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
PAH Short list=Benzo(a)pyrene,Benzo(b)fluoranthene,Chrysene & Napht	[signature] Ramboll	4/15/21	0805	[signature] Pace	4/15/21	0805	4.54	Y	N	Y
Dis Metals										

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	DATE Signed:					

Client Name: Ramboll

Sample Preservation Receipt Form

Project # 40225186

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

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A

Initial when completed: SKW Date/ Time:

Lab Lot# of pH paper: 10D3601 Lab Std #ID of preservation (if pH adjusted):

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	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
001						2											4																2.5 / 5 / 10
002						2											4																2.5 / 5 / 10
003						2											4																2.5 / 5 / 10
004						2											4											1						2.5 / 5 / 10
005						2											4																2.5 / 5 / 10
006						2											4											1	MeOH 4-15-21					2.5 / 5 / 10
007																	2																	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																													4/15/21 SKW					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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Ramboll

Project #:

WO# : 40225186

40225186

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☒ Client ☐ Pace Other:

Tracking #:

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

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

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

Thermometer Used SR - 104 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4,5,4 /Corr: 4,5,4

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 4-15-21 /Initials: SKW

Labeled By Initials: MLR

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1. COC matrix MLR 4-15-21
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	Proj.# 1 4-15-21 SW
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: MLR 4-15-21 For Analysis: ☐Yes ☒No MS/MSD: ☐Yes ☒No ☐N/A		8. Under volume per PM: 001 (hg x 25mL) + 003 (hg < 20mL) MLR 4-15-21
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 463		

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

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi