

From: Dombrowski, Frank J <frank.dombrowski@wecenergygroup.com>
Sent: Friday, November 15, 2024 12:09 PM
To: gielniewski.margaret@epa.gov
Cc: DNR RR NER; Korpela, Adrienne/MKE; Krueger, Sarah E - DNR; Abigail Small; DNR RR NER
Subject: WPSC Marinette Former MGP - Oct. 2024 Monthly Progress Report (CERCLA Docket No. V-W-18-C-009)
Attachments: 2024-11-15 WPSC-USEPA October 2024 Marinette Monthly Progress Report_Final.pdf

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Hi Margaret,

Please find attached the October 2024 monthly progress report for the WPSC Marinette, WI Former MGP Site.

As always, please let us know if you have any questions on the monthly report.

Thank you,

Frank Dombrowski
Principal Environmental Consultant

WEC Energy Group - Business Services
Environmental Dept. - Land Quality Group
333 W. Everett St., A231
Milwaukee, WI 53203
Office: (414) 221-2156
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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*



November 15, 2024

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

**RE: October 2024 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 September 2024 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by October 15, 2024.
- Completed semi-annual groundwater sampling from October 8 – 9, 2024.

2) ANALYTICAL AND OTHER TESTING RESULTS RECEIVED

- Received laboratory data packages from May groundwater sampling event.

3) PROJECTED WORK

WPSC Actions

- Submit monthly progress report to USEPA by the 15th of the month.

USEPA Actions

- Prepare Record of Decision (ROD)

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,

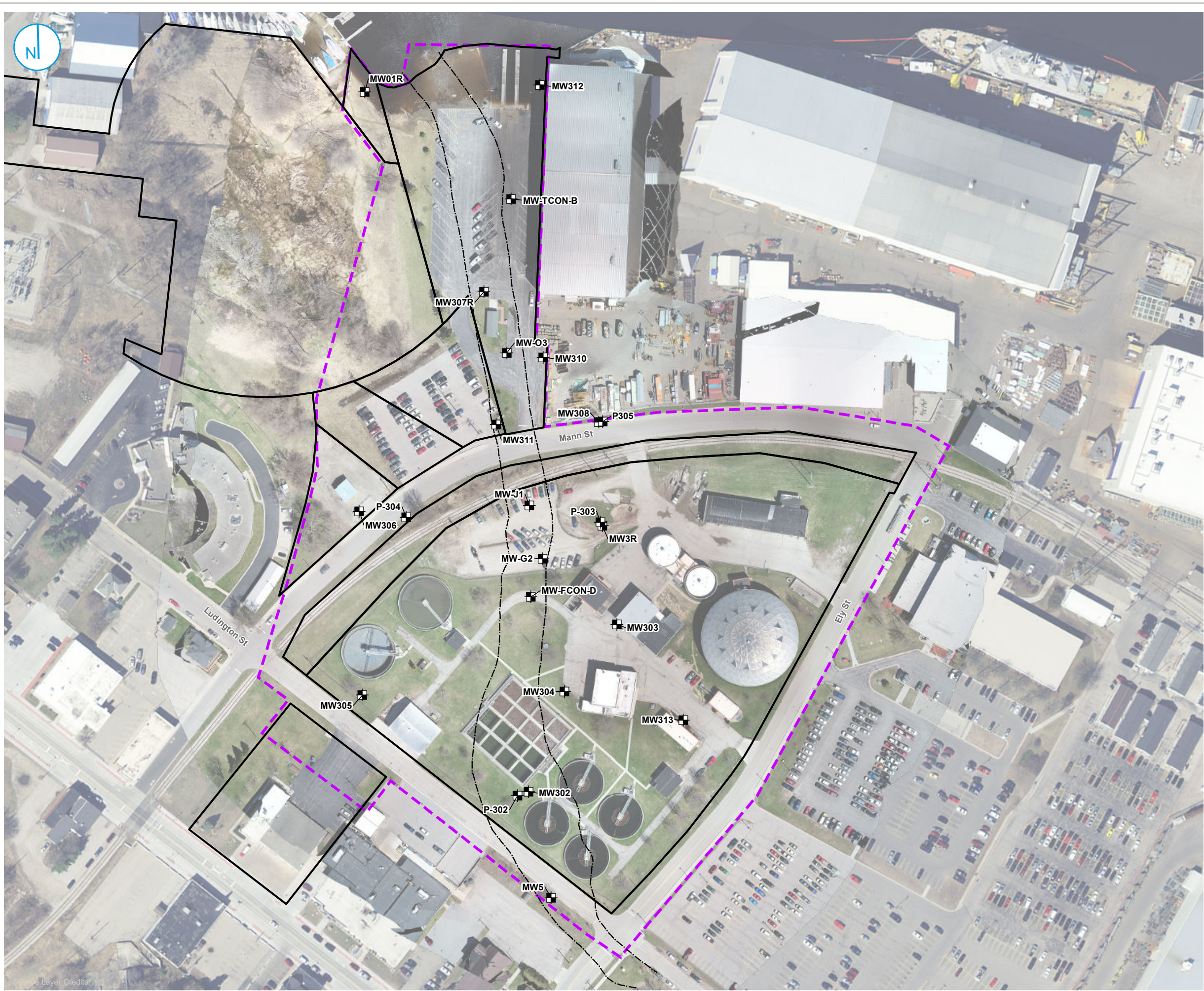


Frank Dombrowski
Principal Environmental Consultant
WEC Business Services – Environmental Dept

Enclosures: Figure 1 – Monitoring Wells
 Table 1 – Groundwater Analytical Results Compared to the
 Groundwater Standard, Tap Water Criteria, and WI PAL
 Attachment 1 - Laboratory Reports

For distribution to: Ms. Sarah Krueger, WDNR (via US Mail and email)
 Ms. Adrienne Korpela, Jacobs (via email)
 Ms. Abby Small, Ramboll (via email)

FIGURE



- 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



TABLE

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

Monthly Progress Report - October 2024 Sample Results
Wisconsin Public Service Corporation
Marinette Former MGP
Marinette, Wisconsin
BRRTS# 0238000047 CERCLIS ID: WIN000509952

			BTEX	BTEX	BTEX	BTEX	BTEX	BTEX	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH		
9-digit Code	Sample Location	Sample Date	Benzene	Ethylbenzene	Toluene	Xylene, o	Xylenes, m + p	Xylenes, Total	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene		
			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	
Reporting Units:			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
Tap Water RSL:			0.46		1.5		1,100		190		190		190		0.01		36		530		530		1,800		0.03		0.025	
WI Groundwater SL:			5		700		800		NS		NS		NS		3,000		NS		0.2		0.2		NS		400		400	
WI Groundwater PAL:			0.5		140		160		NS		NS		NS		600		NS		0.02		0.02		NS		80		80	
100924019	MW01R	10/09/24	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.25		0.059		0.35		0.014	U	0.021	U	0.015	U	0.014	U
100924025/100924026 (N)	MW03	10/09/24	170		12.6		--		--		--		--		0.14	J	0.15	J	--		0.34	J	--		--		120	
100924018	MW03R	10/09/24	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.022	J	0.018	J	0.015	U	0.15		0.23		0.27		0.53	
100824008	MW05	10/08/24	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	--		--		--		0.021	U	--		0.014	U	0.010	U
100824003	MW302	10/08/24	0.40	J	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	--		--		--		0.068		--		0.13		0.14	
100824005	MW303	10/08/24	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	--		--		--		0.037	J	--		0.014	U	0.010	U
100824004	MW304	10/08/24	32.4		3.2		0.64	J	1.6		1.2	J	2.8	J	--		--		--		0.21		--		0.029	U	0.022	J
100824001	MW305	10/08/24	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	--		--		--		0.021	U	--		0.014	U	0.010	U
100824012	MW306	10/08/24	0.30	U	2.0		0.29	U	8.1		2.2		10.3		--		--		--		0.020	U	--		0.014	U	0.0098	U
100924020	MW307R	10/09/24	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	1.0		0.023	J	3.8		0.081		0.085		0.048	J	0.034	J
100824010	MW308	10/08/24	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	--		--		--		0.021	U	--		0.015	U	0.011	J
100824014	MW310	10/08/24	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	--		--		--		0.046	J	--		0.021	J	0.044	J
100824011	MW311	10/08/24	107		84.1		3.2		47.9		10.8		58.6		--		--		--		8.6		--		0.69	U	0.50	U
100824013	MW312	10/08/24	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	--		--		--		0.033	J	--		0.015	U	0.010	U
100824006/100824007 (N)	MW313	10/08/24	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	--		--		--		0.031	J	--		0.014	U	0.010	U
100924021	MWFCOND	10/09/24	4,830		270		--		--		--		--		23.2		24.3		--		--		--		0.014	U	0.010	U
100924023/100924024 (N)	MWG2	10/09/24	1,720		2,100		--		--		--		--		6.7	U	4.8	U	--		--		--	--	6.7	U	--	--
100924022	MWJ1	10/09/24	5,870		236		--		--		--		--		53.9		57.9		--		--		--	--	57.6		--	--
100924027	MWTCONB	10/09/24	0.30	U	0.33	U	--		--		--		--		0.051	J	0.097		--		--		--	0.089		--	--	
100824002	P302	10/08/24	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	--		--		--		0.019	U	--		0.017	J	0.017	J
100924017	P303	10/09/24	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	0.023	J	0.014	U	0.066		0.41		0.36		0.89		0.86	
100824009	P305	10/08/24	0.30	U	0.33	U	0.29	U	0.35	U	0.70	U	1.0	U	--		--		--		0.059		--		0.014	U	0.010	U
Total Number of Samples Analyzed:			22		22		17		17		17		17		4		4		4		4		17		4		17	
Number of Detections:			7		7		2		3		3		3		4		3		3		11		3		10		12	
Min:			0.4		2		0.64		1.6		1.2		2.8		0.022		0.018		0.066		0.081		0.031		0.048		0.017	
Max:			5,870		2,100		3.2		47.9		10.8		58.6		1		0.059		3.8		0.41		8.6		0.89		53.9	
Tap Water RSL:			0.46		1.5		1100		190		190		190		0.01		36		530		530		1800		0.03		0.025	
Number of Samples that Exceed Tap Water RSL: :			6		7		0		0		0		0		4		0		0		0		3		8		4	
WI Groundwater SL:			5		700		800		NS		NS		2000		NS		NS		NS		NS		3000		NS		0.2	
Number of Samples that Exceed WI Groundwater SL:			6		1		0		0		0		0		0		0		0		0		0		4		4	
WI Groundwater PAL:			0.5		140		160		NS		NS		400		NS		NS		NS		NS		600		NS		0.02	
Number of Samples that Exceed WI Groundwater PAL:			6		3		0		0		0		0		0		0		0		0		0		0		9	

Analyte concentration	
Italicized	exceeds the standard/screening level for Tap Water RSL
Bold	exceeds the standard/screening level for WI Groundwater SL
Underlined	attains or exceeds the standard/screening level for WI Groundwater PAL

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

Screening Levels and Standards:
PAL from WI Administrative Code NR 140 groundwater quality standard last revised July 2023.

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, several revisions of the RSLs have been published by EPA through May 2024. The RSLs necessary for the MGP-related constituents evaluated in this table are up to date with the most recent revision.

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

Acronyms:
(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
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
WI = Wisconsin

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

Monthly Progress Report - October 2024 Sample Results
Wisconsin Public Service Corporation
Marinette Former MGP
Marinette, Wisconsin
BRRTS# 0238000047 CERCLIS ID: WIN000509952

			Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Inorganic	Inorganic	Inorganic	Organic	Field	Field	Field	Field	Field	Field	Field
9-digit Code	Sample Location	Sample Date	Aluminum, Dissolved	Antimony, Dissolved	Copper, Dissolved	Iron, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Silver, Dissolved	Vanadium, Dissolved	Zinc, Dissolved	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	µg/L	µg/L	µg/L	µg/L	µg/L	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	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag
Tap Water RSL:			20,000	7.8	800	14,000	430	390	94	86	6,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WI Groundwater SL:			200	6	1,300	NS	300	100	50	30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WI Groundwater PAL:			40	1.2	130	150	60	20	10	6	2,500	NS	2,000	125,000	NS	NS	NS	NS	NS	NS	NS	NS
100924019	MW01R	10/09/24	117 U	0.30 U	3.8 U	8,410	629	0.72 J	0.25 U	3.0	20.7 U	311,000	59 U	2,400 J	10,100	0.15	4.96	-100.6	6.82	639.6	14.22	0.00
100924025/100924026 (N)	MW03	10/09/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.38	--	--	--	--	--
100924018	MW03R	10/09/24	117 U	0.30 U	3.8 U	3,780	504	3.8	0.25 U	1.1 J	20.7 U	429,000	150 J	28,600	285	0.21	5.71	-91.2	6.76	900.3	15.73	67.07
100824008	MW05	10/08/24	117 U	0.30 U	3.8 U	116 U	392	1.9 J	0.25 U	0.63 U	20.7 U	236,000	59 U	46,400	0.58 U	0.13	7.42	-13.9	7.41	897.7	14.30	6.39
100824003	MW302	10/08/24	117 U	0.30 U	3.8 U	116 U	49.9	2.1	0.25 U	0.63 U	20.7 U	318,000	59 U	79,800	78.7	0.22	12.71	132.6	6.76	1555.1	17.88	0.00
100824005	MW303	10/08/24	117 U	0.30 U	3.8 U	12,400	691	0.87 J	0.25 U	3.3	20.7 U	449,000	59 U	15,200	1,850	0.25	4.56	-152.0	7.25	1,375	20.21	59.56
100824004	MW304	10/08/24	117 U	0.62 J	3.8 U	1,480	2,020	2.6	0.25 U	1.8 J	20.7 U	440,000	89 J	46,300	727	0.18	7.14	-179.6	7.09	993.8	18.42	13.81
100824001	MW305	10/08/24	117 U	0.30 U	7.7 J	116 U	2.4 U	0.73 J	0.25 U	0.63 U	20.7 U	288,000	8,200	109,000	0.58 U	3.40	15.32	282.1	7.36	2319.4	15.39	0.00
100824012	MW306	10/08/24	117 U	0.30 U	3.8 U	14,000	791	0.57 U	0.25 U	2.4	20.7 U	247,000	59 U	159,000	232	0.41	4.87	-99.9	7.00	862.1	16.71	7.02
100924020	MW307R	10/09/24	117 U	0.30 U	3.8 U	30,200	767	0.57 U	0.25 U	0.63 U	20.7 U	382,000	59 U	2,200 U	7,600	0.20	4.98	-92.3	6.77	1219.8	18.30	5.60
100824010	MW308	10/08/24	117 U	0.30 U	34.3	2,530	2,970	13.9	0.30 J	0.63 U	137	683,000	59 U	306,000	98.7	0.19	6.63	76.0	6.63	10593.1	17.32	22.63
100824014	MW310	10/08/24	117 U	0.30 U	3.8 U	20,800	800	0.66 J	0.25 U	4.4	20.7 U	440,000	59 U	6,100 J	3,420	0.14	5.73	-143.8	6.94	1676.9	18.33	2.28
100824011	MW311	10/08/24	117 U	0.30 U	7.0 J	36,900	906	0.81 J	0.25 U	1.6 J	20.7 U	724,000	59 U	2,200 U	7,120	0.15	5.50	-131.7	6.72	2860.7	17.92	0.00
100824013	MW312	10/08/24	117 U	0.30 U	3.8 U	40,300	1,380	0.57 U	0.25 U	0.63 U	20.7 U	841,000	59 U	3,900 J	13,300	0.17	2.90	-114.8	6.66	2298.4	17.10	8.54
100824006/100824007 (N)	MW313	10/08/24	117 U	0.30 U	3.8 U	31,600	1,290	1.4 J	0.25 U	7.1	20.7 U	491,000	59 U	11,600	12,400	0.17	4.60	-155.2	6.77	1189.8	18.52	6.11
100924021	MWFCOND	10/09/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.63	--	--	--	--	--
100924023/100924024 (N)	MWG2	10/09/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.25	--	--	--	--	--
100924022	MWJ1	10/09/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.83	--	--	--	--	--
100924027	MWTCONB	10/09/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.04	--	--	--	--	--
100824002	P302	10/08/24	117 U	0.30 U	3.8 U	686	368	0.57 U	0.25 U	0.63 U	20.7 U	237,000	59 U	53,100	20.2	0.13	12.98	41.8	7.15	899.4	14.40	21.24
100924017	P303	10/09/24	137 J	0.38 J	3.8 U	269 J	14.8	0.99 J	0.25 U	1.0 J	20.7 U	142,000	190 J	855,000	0.58 U	83.07	--	63.2	7.67	1855.7	12.60	32.02
100824009	P305	10/08/24	117 U	0.30 U	3.8 U	243 J	525	12.1	0.25 U	0.79 J	20.7 U	407,000	59 U	9,600 J	150	0.18	6.96	21.1	7.08	1696.2	16.00	0.00

Total Number of Samples Analyzed:	17	17	17	17	17	17	17	17	17	17	17	17	17	17	21	17	17	17	17	17
Number of Detections:	1	2	3	14	16	13	1	10	1	17	4	15	14	17	21	17	17	17	17	17
Min:	137	0.38	7	243	14.8	0.66	0.3	0.79	137	142,000	89	2,400	20.2	0.13	2.9	-179.6	6.63	639.6	12.6	0
Max:	137	0.62	34.3	40,300	2,970	13.9	0.3	7.1	137	841,000	8,200	855,000	13,300	83.07	15.32	282.1	7.67	10,593	20.21	67.07
Tap Water RSL:	20000	7.8	800	14000	430	390	94	86	6000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Number of Samples that Exceed Tap Water RSL: :	0	0	0	5	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WI Groundwater SL:	200	6	1300	NS	300	100	50	30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Number of Samples that Exceed WI Groundwater SL:	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WI Groundwater PAL:	40	1.2	130	150	60	20	10	6	2500	NS	2000	125000	NS	NS	NS	NS	NS	NS	NS	NS
Number of Samples that Exceed WI Groundwater PAL:	1	0	0	14	14	0	0	1	0	0	1	3	0	0	0	0	0	0	0	0

[O:GKU 11/6/24, C: ECB 11/13/2024]

Analyte concentration

Italicized	exceeds the standard/screening level for Tap Water RSL
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EPA = Environmental Protection Agency
GW = Groundwater
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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
WI = Wisconsin

LAB REPORTS



October 24, 2024

Emily Ruder
Ramboll
234 W Florida St
Fifth Floor
Milwaukee, WI 53204

RE: Project: MARINETTE MGP
Pace Project No.: 40285415

Dear Emily Ruder:

Enclosed are the analytical results for sample(s) received by the laboratory on October 09, 2024. 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,

A handwritten signature in black ink, appearing to read "Brian Basten".

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

Enclosures

cc: ERIC BAUER, Ramboll
Marcus Byker, Ramboll
NRT Data, Ramboll
Abigail Small, Ramboll
Scott Woods, Ramboll



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MARINETTE MGP

Pace Project No.: 40285415

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

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: MARINETTE MGP

Pace Project No.: 40285415

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40285415001	100824001	Water	10/08/24 11:08	10/09/24 07:40
40285415002	100824002	Water	10/08/24 11:48	10/09/24 07:40
40285415003	100824003	Water	10/08/24 12:33	10/09/24 07:40
40285415004	100824004	Water	10/08/24 13:02	10/09/24 07:40
40285415005	100824005	Water	10/08/24 13:31	10/09/24 07:40
40285415006	100824006	Water	10/08/24 14:02	10/09/24 07:40
40285415007	100824007	Water	10/08/24 14:07	10/09/24 07:40
40285415008	100824008	Water	10/08/24 14:55	10/09/24 07:40
40285415009	100824009	Water	10/08/24 15:37	10/09/24 07:40
40285415010	100824010	Water	10/08/24 16:03	10/09/24 07:40
40285415011	100824011	Water	10/08/24 16:32	10/09/24 07:40
40285415012	100824012	Water	10/08/24 17:14	10/09/24 07:40
40285415013	100824013	Water	10/08/24 17:47	10/09/24 07:40
40285415014	100824014	Water	10/08/24 18:15	10/09/24 07:40
40285415015	100824015	Water	10/08/24 18:30	10/09/24 07:40
40285415016	100824016	Water	10/08/24 00:00	10/09/24 07:40

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SAMPLE ANALYTE COUNT

Project: MARINETTE MGP

Pace Project No.: 40285415

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40285415001	100824001	EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
		EPA 310.2	MT	1
		EPA 353.2	MT	1
40285415002	100824002	EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
		EPA 310.2	MT	1
		EPA 353.2	MT	1
40285415003	100824003	EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
		EPA 310.2	MT	1
		EPA 353.2	MT	1
40285415004	100824004	EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
		EPA 310.2	MT	1
		EPA 353.2	MT	1
40285415005	100824005	EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
		EPA 310.2	MT	1
		EPA 353.2	MT	1
40285415006	100824006	EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9

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SAMPLE ANALYTE COUNT

Project: MARINETTE MGP
Pace Project No.: 40285415

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40285415007	100824007	EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
		EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
40285415008	100824008	EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
		EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 8015B Modified	EMG	1
40285415009	100824009	EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
		EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
40285415010	100824010	EPA 300.0	HMB	1
		EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
		EPA 310.2	MT	1
		EPA 353.2	MT	1
40285415011	100824011	EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9

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SAMPLE ANALYTE COUNT

Project: MARINETTE MGP
Pace Project No.: 40285415

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40285415012	100824012	EPA 300.0	HMB	1
		EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
40285415013	100824013	EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
		EPA 310.2	MT	1
40285415014	100824014	EPA 353.2	MT	1
		EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
		EPA 310.2	MT	1
		EPA 353.2	MT	1
40285415015	100824015	EPA 8015B Modified	EMG	1
		EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9
		EPA 300.0	HMB	1
		EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 8015B Modified	EMG	1
40285415016	100824016	EPA 6020B	KXS	9
		EPA 8270E by SIM	TPO	12
		EPA 8260	NB	9

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824001 Lab ID: 40285415001 Collected: 10/08/24 11:08 Received: 10/09/24 07:40 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	<0.58	ug/L	2.8	0.58	1		10/10/24 12:40	74-82-8	
6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<117	ug/L	500	117	2	10/10/24 09:38	10/15/24 08:34	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 08:34	7440-36-0	D3
Copper, Dissolved	7.7J	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 08:34	7440-50-8	D3
Iron, Dissolved	<116	ug/L	500	116	2	10/10/24 09:38	10/15/24 08:34	7439-89-6	D3
Manganese, Dissolved	<2.4	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 08:34	7439-96-5	D3
Nickel, Dissolved	0.73J	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 08:34	7440-02-0	D3
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 08:34	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 08:34	7440-62-2	D3
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 08:34	7440-66-6	D3
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	<0.021	ug/L	0.056	0.021	1	10/11/24 07:33	10/14/24 20:35	120-12-7	
Benzo(a)pyrene	<0.014	ug/L	0.056	0.014	1	10/11/24 07:33	10/14/24 20:35	50-32-8	
Benzo(b)fluoranthene	<0.010	ug/L	0.056	0.010	1	10/11/24 07:33	10/14/24 20:35	205-99-2	
Benzo(g,h,i)perylene	<0.026	ug/L	0.056	0.026	1	10/11/24 07:33	10/14/24 20:35	191-24-2	
Chrysene	<0.014	ug/L	0.056	0.014	1	10/11/24 07:33	10/14/24 20:35	218-01-9	
Fluoranthene	<0.029	ug/L	0.056	0.029	1	10/11/24 07:33	10/14/24 20:35	206-44-0	
Fluorene	<0.026	ug/L	0.056	0.026	1	10/11/24 07:33	10/14/24 20:35	86-73-7	
Naphthalene	0.050J	ug/L	0.056	0.022	1	10/11/24 07:33	10/14/24 20:35	91-20-3	
Phenanthrene	<0.028	ug/L	0.056	0.028	1	10/11/24 07:33	10/14/24 20:35	85-01-8	
Pyrene	<0.025	ug/L	0.056	0.025	1	10/11/24 07:33	10/14/24 20:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	77	%	33-123		1	10/11/24 07:33	10/14/24 20:35	321-60-8	
Terphenyl-d14 (S)	96	%	36-134		1	10/11/24 07:33	10/14/24 20:35	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		10/14/24 15:53	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/24 15:53	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 15:53	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/24 15:53	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/24 15:53	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/24 15:53	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/14/24 15:53	2199-69-1	
4-Bromofluorobenzene (S)	100	%	70-130		1		10/14/24 15:53	460-00-4	
Toluene-d8 (S)	98	%	70-130		1		10/14/24 15:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824001		Lab ID: 40285415001		Collected: 10/08/24 11:08		Received: 10/09/24 07:40		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	109	mg/L	10.0	2.2	5		10/23/24 03:03	14808-79-8	
310.2 Alkalinity		Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay							
Alkalinity, Total as CaCO ₃	288	mg/L	25.0	7.4	1		10/15/24 11:02		
353.2 Nitrogen, NO₂/NO₃ pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay							
Nitrogen, NO ₂ plus NO ₃	8.2	mg/L	0.25	0.059	1		10/21/24 10:03		

Sample: 100824002		Lab ID: 40285415002		Collected: 10/08/24 11:48		Received: 10/09/24 07:40		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	20.2	ug/L	2.8	0.58	1		10/10/24 12:47	74-82-8	
6020B MET ICPMS, Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay							
Aluminum, Dissolved	<0.117	ug/L	500	117	2	10/10/24 09:38	10/15/24 07:43	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 07:43	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 07:43	7440-50-8	D3
Iron, Dissolved	686	ug/L	500	116	2	10/10/24 09:38	10/15/24 07:43	7439-89-6	
Manganese, Dissolved	368	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 07:43	7439-96-5	
Nickel, Dissolved	<0.57	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 07:43	7440-02-0	D3
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 07:43	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 07:43	7440-62-2	D3
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 07:43	7440-66-6	D3
8270E MSSV PAH		Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay							
Anthracene	<0.019	ug/L	0.052	0.019	1	10/11/24 07:33	10/14/24 16:19	120-12-7	
Benzo(a)pyrene	0.017J	ug/L	0.052	0.013	1	10/11/24 07:33	10/14/24 16:19	50-32-8	
Benzo(b)fluoranthene	0.017J	ug/L	0.052	0.0095	1	10/11/24 07:33	10/14/24 16:19	205-99-2	
Benzo(g,h,i)perylene	<0.024	ug/L	0.052	0.024	1	10/11/24 07:33	10/14/24 16:19	191-24-2	
Chrysene	<0.013	ug/L	0.052	0.013	1	10/11/24 07:33	10/14/24 16:19	218-01-9	
Fluoranthene	<0.027	ug/L	0.052	0.027	1	10/11/24 07:33	10/14/24 16:19	206-44-0	
Fluorene	<0.025	ug/L	0.052	0.025	1	10/11/24 07:33	10/14/24 16:19	86-73-7	
Naphthalene	0.037J	ug/L	0.052	0.021	1	10/11/24 07:33	10/14/24 16:19	91-20-3	
Phenanthrene	<0.027	ug/L	0.052	0.027	1	10/11/24 07:33	10/14/24 16:19	85-01-8	
Pyrene	0.033J	ug/L	0.052	0.024	1	10/11/24 07:33	10/14/24 16:19	129-00-0	

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824002 Lab ID: 40285415002 Collected: 10/08/24 11:48 Received: 10/09/24 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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8270E MSSV PAH
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510
Pace Analytical Services - Green Bay

Surrogates

2-Fluorobiphenyl (S)	78	%	33-123		1	10/11/24 07:33	10/14/24 16:19	321-60-8	
Terphenyl-d14 (S)	89	%	36-134		1	10/11/24 07:33	10/14/24 16:19	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		10/14/24 10:40	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/24 10:40	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 10:40	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/24 10:40	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/24 10:40	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/24 10:40	95-47-6	

Surrogates

1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/14/24 10:40	2199-69-1	
4-Bromofluorobenzene (S)	100	%	70-130		1		10/14/24 10:40	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		10/14/24 10:40	2037-26-5	

300.0 IC Anions
Analytical Method: EPA 300.0
Pace Analytical Services - Green Bay

Sulfate	53.1	mg/L	10.0	2.2	5		10/23/24 03:16	14808-79-8	
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310.2 Alkalinity
Analytical Method: EPA 310.2
Pace Analytical Services - Green Bay

Alkalinity, Total as CaCO3	237	mg/L	25.0	7.4	1		10/15/24 11:03		
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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		10/21/24 10:06		
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Sample: 100824003 Lab ID: 40285415003 Collected: 10/08/24 12:33 Received: 10/09/24 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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Methane, Ethane, Ethene GCV
Analytical Method: EPA 8015B Modified
Pace Analytical Services - Green Bay

Methane	78.7	ug/L	2.8	0.58	1		10/10/24 12:54	74-82-8	
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6020B MET ICPMS, Dissolved
Analytical Method: EPA 6020B Preparation Method: EPA 3010A
Pace Analytical Services - Green Bay

Aluminum, Dissolved	<117	ug/L	500	117	2	10/10/24 09:38	10/15/24 08:38	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 08:38	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 08:38	7440-50-8	D3
Iron, Dissolved	<116	ug/L	500	116	2	10/10/24 09:38	10/15/24 08:38	7439-89-6	D3

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824003 Lab ID: 40285415003 Collected: 10/08/24 12:33 Received: 10/09/24 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Manganese, Dissolved	49.9	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 08:38	7439-96-5	
Nickel, Dissolved	2.1	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 08:38	7440-02-0	
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 08:38	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 08:38	7440-62-2	D3
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 08:38	7440-66-6	D3
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.068	ug/L	0.057	0.021	1	10/11/24 07:33	10/14/24 20:54	120-12-7	
Benzo(a)pyrene	0.13	ug/L	0.057	0.014	1	10/11/24 07:33	10/14/24 20:54	50-32-8	
Benzo(b)fluoranthene	0.14	ug/L	0.057	0.010	1	10/11/24 07:33	10/14/24 20:54	205-99-2	
Benzo(g,h,i)perylene	0.11	ug/L	0.057	0.026	1	10/11/24 07:33	10/14/24 20:54	191-24-2	
Chrysene	0.076	ug/L	0.057	0.014	1	10/11/24 07:33	10/14/24 20:54	218-01-9	
Fluoranthene	0.15	ug/L	0.057	0.030	1	10/11/24 07:33	10/14/24 20:54	206-44-0	
Fluorene	0.096	ug/L	0.057	0.027	1	10/11/24 07:33	10/14/24 20:54	86-73-7	
Naphthalene	0.044J	ug/L	0.057	0.023	1	10/11/24 07:33	10/14/24 20:54	91-20-3	
Phenanthrene	0.044J	ug/L	0.057	0.029	1	10/11/24 07:33	10/14/24 20:54	85-01-8	
Pyrene	0.11	ug/L	0.057	0.026	1	10/11/24 07:33	10/14/24 20:54	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	33-123		1	10/11/24 07:33	10/14/24 20:54	321-60-8	
Terphenyl-d14 (S)	82	%	36-134		1	10/11/24 07:33	10/14/24 20:54	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	0.40J	ug/L	1.0	0.30	1		10/14/24 16:09	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/24 16:09	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 16:09	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/24 16:09	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/24 16:09	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/24 16:09	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/14/24 16:09	2199-69-1	
4-Bromofluorobenzene (S)	101	%	70-130		1		10/14/24 16:09	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		10/14/24 16:09	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	79.8	mg/L	10.0	2.2	5		10/23/24 03:55	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	318	mg/L	25.0	7.4	1		10/15/24 11:06		

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824003 Lab ID: 40285415003 Collected: 10/08/24 12:33 Received: 10/09/24 07:40 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	<0.059	mg/L	0.25	0.059	1		10/21/24 10:08		

Sample: 100824004 Lab ID: 40285415004 Collected: 10/08/24 13:02 Received: 10/09/24 07:40 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	727	ug/L	28.0	5.8	10		10/10/24 14:08	74-82-8	
6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<117	ug/L	500	117	2	10/10/24 09:38	10/15/24 08:42	7429-90-5	D3
Antimony, Dissolved	0.62J	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 08:42	7440-36-0	B,D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 08:42	7440-50-8	D3
Iron, Dissolved	1480	ug/L	500	116	2	10/10/24 09:38	10/15/24 08:42	7439-89-6	
Manganese, Dissolved	2020	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 08:42	7439-96-5	
Nickel, Dissolved	2.6	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 08:42	7440-02-0	
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 08:42	7440-22-4	D3
Vanadium, Dissolved	1.8J	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 08:42	7440-62-2	D3
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 08:42	7440-66-6	D3
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.21	ug/L	0.11	0.042	2	10/11/24 07:33	10/15/24 00:34	120-12-7	
Benzo(a)pyrene	<0.029	ug/L	0.11	0.029	2	10/11/24 07:33	10/15/24 00:34	50-32-8	
Benzo(b)fluoranthene	0.022J	ug/L	0.11	0.021	2	10/11/24 07:33	10/15/24 00:34	205-99-2	
Benzo(g,h,i)perylene	<0.053	ug/L	0.11	0.053	2	10/11/24 07:33	10/15/24 00:34	191-24-2	
Chrysene	<0.029	ug/L	0.11	0.029	2	10/11/24 07:33	10/15/24 00:34	218-01-9	
Fluoranthene	0.086J	ug/L	0.11	0.059	2	10/11/24 07:33	10/15/24 00:34	206-44-0	
Fluorene	0.29	ug/L	0.11	0.053	2	10/11/24 07:33	10/15/24 00:34	86-73-7	
Naphthalene	12.4	ug/L	0.11	0.045	2	10/11/24 07:33	10/15/24 00:34	91-20-3	
Phenanthrene	0.76	ug/L	0.11	0.058	2	10/11/24 07:33	10/15/24 00:34	85-01-8	
Pyrene	<0.051	ug/L	0.11	0.051	2	10/11/24 07:33	10/15/24 00:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	33-123		2	10/11/24 07:33	10/15/24 00:34	321-60-8	
Terphenyl-d14 (S)	88	%	36-134		2	10/11/24 07:33	10/15/24 00:34	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	32.4	ug/L	1.0	0.30	1		10/14/24 13:18	71-43-2	
Ethylbenzene	3.2	ug/L	1.0	0.33	1		10/14/24 13:18	100-41-4	
Toluene	0.64J	ug/L	1.0	0.29	1		10/14/24 13:18	108-88-3	

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824004 Lab ID: 40285415004 Collected: 10/08/24 13:02 Received: 10/09/24 07:40 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)	2.8J	ug/L	3.0	1.0	1		10/14/24 13:18	1330-20-7	
m&p-Xylene	1.2J	ug/L	2.0	0.70	1		10/14/24 13:18	179601-23-1	
o-Xylene	1.6	ug/L	1.0	0.35	1		10/14/24 13:18	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/14/24 13:18	2199-69-1	
4-Bromofluorobenzene (S)	99	%	70-130		1		10/14/24 13:18	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		10/14/24 13:18	2037-26-5	

300.0 IC Anions Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	46.3	mg/L	10.0	2.2	5		10/23/24 04:08	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	440	mg/L	25.0	7.4	1		10/15/24 11:10		
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.089J	mg/L	0.25	0.059	1		10/21/24 10:09		

Sample: 100824005 Lab ID: 40285415005 Collected: 10/08/24 13:31 Received: 10/09/24 07:40 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	1850	ug/L	70.0	14.4	25		10/10/24 14:16	74-82-8	
6020B MET ICPMS, Dissolved Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<117	ug/L	500	117	2	10/10/24 09:38	10/15/24 08:47	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 08:47	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 08:47	7440-50-8	D3
Iron, Dissolved	12400	ug/L	500	116	2	10/10/24 09:38	10/15/24 08:47	7439-89-6	
Manganese, Dissolved	691	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 08:47	7439-96-5	
Nickel, Dissolved	0.87J	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 08:47	7440-02-0	D3
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 08:47	7440-22-4	D3
Vanadium, Dissolved	3.3	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 08:47	7440-62-2	
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 08:47	7440-66-6	D3
8270E MSSV PAH Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.037J	ug/L	0.056	0.021	1	10/11/24 07:33	10/14/24 21:12	120-12-7	

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ANALYTICAL RESULTS

Project: MARINETTE MGP

Pace Project No.: 40285415

Sample: 100824005 Lab ID: 40285415005 Collected: 10/08/24 13:31 Received: 10/09/24 07:40 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	<0.014	ug/L	0.056	0.014	1	10/11/24 07:33	10/14/24 21:12	50-32-8	
Benzo(b)fluoranthene	<0.010	ug/L	0.056	0.010	1	10/11/24 07:33	10/14/24 21:12	205-99-2	
Benzo(g,h,i)perylene	<0.026	ug/L	0.056	0.026	1	10/11/24 07:33	10/14/24 21:12	191-24-2	
Chrysene	<0.014	ug/L	0.056	0.014	1	10/11/24 07:33	10/14/24 21:12	218-01-9	
Fluoranthene	<0.029	ug/L	0.056	0.029	1	10/11/24 07:33	10/14/24 21:12	206-44-0	
Fluorene	<0.026	ug/L	0.056	0.026	1	10/11/24 07:33	10/14/24 21:12	86-73-7	
Naphthalene	0.027J	ug/L	0.056	0.022	1	10/11/24 07:33	10/14/24 21:12	91-20-3	
Phenanthrene	<0.028	ug/L	0.056	0.028	1	10/11/24 07:33	10/14/24 21:12	85-01-8	
Pyrene	0.041J	ug/L	0.056	0.025	1	10/11/24 07:33	10/14/24 21:12	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	33-123		1	10/11/24 07:33	10/14/24 21:12	321-60-8	
Terphenyl-d14 (S)	86	%	36-134		1	10/11/24 07:33	10/14/24 21:12	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		10/14/24 16:24	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/24 16:24	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 16:24	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/24 16:24	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/24 16:24	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/24 16:24	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/14/24 16:24	2199-69-1	
4-Bromofluorobenzene (S)	101	%	70-130		1		10/14/24 16:24	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		10/14/24 16:24	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	15.2	mg/L	10.0	2.2	5		10/23/24 04:21	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	449	mg/L	25.0	7.4	1		10/15/24 11:11		
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		10/21/24 10:09		

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824006 Lab ID: 40285415006 Collected: 10/08/24 14:02 Received: 10/09/24 07:40 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	8240	ug/L	280	57.6	100		10/10/24 14:22	74-82-8	
6020B MET ICPMS, Dissolved Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<117	ug/L	500	117	2	10/10/24 09:38	10/15/24 08:51	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 08:51	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 08:51	7440-50-8	D3
Iron, Dissolved	31600	ug/L	500	116	2	10/10/24 09:38	10/15/24 08:51	7439-89-6	
Manganese, Dissolved	1290	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 08:51	7439-96-5	
Nickel, Dissolved	1.3J	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 08:51	7440-02-0	D3
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 08:51	7440-22-4	D3
Vanadium, Dissolved	7.1	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 08:51	7440-62-2	
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 08:51	7440-66-6	D3
8270E MSSV PAH Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.031J	ug/L	0.055	0.020	1	10/11/24 07:33	10/14/24 21:30	120-12-7	
Benzo(a)pyrene	<0.014	ug/L	0.055	0.014	1	10/11/24 07:33	10/14/24 21:30	50-32-8	
Benzo(b)fluoranthene	<0.010	ug/L	0.055	0.010	1	10/11/24 07:33	10/14/24 21:30	205-99-2	
Benzo(g,h,i)perylene	<0.025	ug/L	0.055	0.025	1	10/11/24 07:33	10/14/24 21:30	191-24-2	
Chrysene	<0.014	ug/L	0.055	0.014	1	10/11/24 07:33	10/14/24 21:30	218-01-9	
Fluoranthene	0.10	ug/L	0.055	0.029	1	10/11/24 07:33	10/14/24 21:30	206-44-0	
Fluorene	0.12	ug/L	0.055	0.026	1	10/11/24 07:33	10/14/24 21:30	86-73-7	
Naphthalene	0.026J	ug/L	0.055	0.022	1	10/11/24 07:33	10/14/24 21:30	91-20-3	
Phenanthrene	<0.028	ug/L	0.055	0.028	1	10/11/24 07:33	10/14/24 21:30	85-01-8	
Pyrene	0.069	ug/L	0.055	0.025	1	10/11/24 07:33	10/14/24 21:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	33-123		1	10/11/24 07:33	10/14/24 21:30	321-60-8	
Terphenyl-d14 (S)	81	%	36-134		1	10/11/24 07:33	10/14/24 21:30	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		10/14/24 13:33	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/24 13:33	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 13:33	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/24 13:33	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/24 13:33	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/24 13:33	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/14/24 13:33	2199-69-1	
4-Bromofluorobenzene (S)	101	%	70-130		1		10/14/24 13:33	460-00-4	
Toluene-d8 (S)	98	%	70-130		1		10/14/24 13:33	2037-26-5	

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824006 Lab ID: 40285415006 Collected: 10/08/24 14:02 Received: 10/09/24 07:40 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	11.4	mg/L	10.0	2.2	5		10/23/24 04:33	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO ₃	491	mg/L	25.0	7.4	1		10/15/24 11:12		
353.2 Nitrogen, NO₂/NO₃ pres. Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO ₂ plus NO ₃	<0.059	mg/L	0.25	0.059	1		10/21/24 10:10		

Sample: 100824007 Lab ID: 40285415007 Collected: 10/08/24 14:07 Received: 10/09/24 07:40 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	12400	ug/L	280	57.6	100		10/10/24 14:29	74-82-8	
6020B MET ICPMS, Dissolved Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<117	ug/L	500	117	2	10/10/24 09:38	10/15/24 08:55	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 08:55	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 08:55	7440-50-8	D3
Iron, Dissolved	30800	ug/L	500	116	2	10/10/24 09:38	10/15/24 08:55	7439-89-6	
Manganese, Dissolved	1260	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 08:55	7439-96-5	
Nickel, Dissolved	1.4J	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 08:55	7440-02-0	D3
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 08:55	7440-22-4	D3
Vanadium, Dissolved	6.4	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 08:55	7440-62-2	
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 08:55	7440-66-6	D3
8270E MSSV PAH Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.027J	ug/L	0.057	0.021	1	10/11/24 07:33	10/14/24 21:49	120-12-7	
Benzo(a)pyrene	<0.015	ug/L	0.057	0.015	1	10/11/24 07:33	10/14/24 21:49	50-32-8	
Benzo(b)fluoranthene	<0.010	ug/L	0.057	0.010	1	10/11/24 07:33	10/14/24 21:49	205-99-2	
Benzo(g,h,i)perylene	<0.027	ug/L	0.057	0.027	1	10/11/24 07:33	10/14/24 21:49	191-24-2	
Chrysene	<0.014	ug/L	0.057	0.014	1	10/11/24 07:33	10/14/24 21:49	218-01-9	
Fluoranthene	0.11	ug/L	0.057	0.030	1	10/11/24 07:33	10/14/24 21:49	206-44-0	
Fluorene	0.14	ug/L	0.057	0.027	1	10/11/24 07:33	10/14/24 21:49	86-73-7	
Naphthalene	0.038J	ug/L	0.057	0.023	1	10/11/24 07:33	10/14/24 21:49	91-20-3	
Phenanthrene	<0.029	ug/L	0.057	0.029	1	10/11/24 07:33	10/14/24 21:49	85-01-8	
Pyrene	0.072	ug/L	0.057	0.026	1	10/11/24 07:33	10/14/24 21:49	129-00-0	

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824007 Lab ID: 40285415007 Collected: 10/08/24 14:07 Received: 10/09/24 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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8270E MSSV PAH
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510
Pace Analytical Services - Green Bay

Surrogates

2-Fluorobiphenyl (S)	74	%	33-123		1	10/11/24 07:33	10/14/24 21:49	321-60-8	
Terphenyl-d14 (S)	87	%	36-134		1	10/11/24 07:33	10/14/24 21:49	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		10/14/24 13:49	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/24 13:49	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 13:49	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/24 13:49	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/24 13:49	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/24 13:49	95-47-6	

Surrogates

1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/14/24 13:49	2199-69-1	
4-Bromofluorobenzene (S)	103	%	70-130		1		10/14/24 13:49	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		10/14/24 13:49	2037-26-5	

300.0 IC Anions
Analytical Method: EPA 300.0
Pace Analytical Services - Green Bay

Sulfate	11.6	mg/L	10.0	2.2	5		10/23/24 04:46	14808-79-8	
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310.2 Alkalinity
Analytical Method: EPA 310.2
Pace Analytical Services - Green Bay

Alkalinity, Total as CaCO ₃	488	mg/L	25.0	7.4	1		10/15/24 11:13		
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353.2 Nitrogen, NO₂/NO₃ pres.
Analytical Method: EPA 353.2
Pace Analytical Services - Green Bay

Nitrogen, NO ₂ plus NO ₃	<0.059	mg/L	0.25	0.059	1		10/21/24 10:11		
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Sample: 100824008 Lab ID: 40285415008 Collected: 10/08/24 14:55 Received: 10/09/24 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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Methane, Ethane, Ethene GCV
Analytical Method: EPA 8015B Modified
Pace Analytical Services - Green Bay

Methane	<0.58	ug/L	2.8	0.58	1		10/10/24 14:02	74-82-8	
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6020B MET ICPMS, Dissolved
Analytical Method: EPA 6020B Preparation Method: EPA 3010A
Pace Analytical Services - Green Bay

Aluminum, Dissolved	<117	ug/L	500	117	2	10/10/24 09:38	10/15/24 09:08	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 09:08	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 09:08	7440-50-8	D3
Iron, Dissolved	<116	ug/L	500	116	2	10/10/24 09:38	10/15/24 09:08	7439-89-6	D3

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824008 Lab ID: 40285415008 Collected: 10/08/24 14:55 Received: 10/09/24 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Manganese, Dissolved	392	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 09:08	7439-96-5	
Nickel, Dissolved	1.9J	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 09:08	7440-02-0	D3
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 09:08	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 09:08	7440-62-2	D3
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 09:08	7440-66-6	D3
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	<0.021	ug/L	0.056	0.021	1	10/11/24 11:03	10/14/24 22:07	120-12-7	
Benzo(a)pyrene	<0.014	ug/L	0.056	0.014	1	10/11/24 11:03	10/14/24 22:07	50-32-8	
Benzo(b)fluoranthene	<0.010	ug/L	0.056	0.010	1	10/11/24 11:03	10/14/24 22:07	205-99-2	
Benzo(g,h,i)perylene	<0.026	ug/L	0.056	0.026	1	10/11/24 11:03	10/14/24 22:07	191-24-2	
Chrysene	<0.014	ug/L	0.056	0.014	1	10/11/24 11:03	10/14/24 22:07	218-01-9	
Fluoranthene	<0.029	ug/L	0.056	0.029	1	10/11/24 11:03	10/14/24 22:07	206-44-0	
Fluorene	<0.026	ug/L	0.056	0.026	1	10/11/24 11:03	10/14/24 22:07	86-73-7	
Naphthalene	0.029J	ug/L	0.056	0.022	1	10/11/24 11:03	10/14/24 22:07	91-20-3	
Phenanthrene	<0.029	ug/L	0.056	0.029	1	10/11/24 11:03	10/14/24 22:07	85-01-8	
Pyrene	<0.025	ug/L	0.056	0.025	1	10/11/24 11:03	10/14/24 22:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	33-123		1	10/11/24 11:03	10/14/24 22:07	321-60-8	
Terphenyl-d14 (S)	81	%	36-134		1	10/11/24 11:03	10/14/24 22:07	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		10/14/24 16:40	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/24 16:40	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 16:40	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/24 16:40	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/24 16:40	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/24 16:40	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/14/24 16:40	2199-69-1	
4-Bromofluorobenzene (S)	99	%	70-130		1		10/14/24 16:40	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		10/14/24 16:40	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	46.4	mg/L	10.0	2.2	5		10/23/24 04:59	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	236	mg/L	25.0	7.4	1		10/15/24 11:14		

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824008 Lab ID: 40285415008 Collected: 10/08/24 14:55 Received: 10/09/24 07:40 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	<0.059	mg/L	0.25	0.059	1		10/21/24 10:12		

Sample: 100824009 Lab ID: 40285415009 Collected: 10/08/24 15:37 Received: 10/09/24 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Methane	150	ug/L	11.2	2.3	4		10/10/24 14:36	74-82-8	

6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<117	ug/L	500	117	2	10/10/24 09:38	10/15/24 09:12	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 09:12	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 09:12	7440-50-8	D3
Iron, Dissolved	243J	ug/L	500	116	2	10/10/24 09:38	10/15/24 09:12	7439-89-6	D3
Manganese, Dissolved	525	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 09:12	7439-96-5	
Nickel, Dissolved	12.1	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 09:12	7440-02-0	
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 09:12	7440-22-4	D3
Vanadium, Dissolved	0.79J	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 09:12	7440-62-2	D3
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 09:12	7440-66-6	D3

8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.059	ug/L	0.056	0.021	1	10/11/24 11:03	10/14/24 22:25	120-12-7	
Benzo(a)pyrene	<0.014	ug/L	0.056	0.014	1	10/11/24 11:03	10/14/24 22:25	50-32-8	
Benzo(b)fluoranthene	<0.010	ug/L	0.056	0.010	1	10/11/24 11:03	10/14/24 22:25	205-99-2	
Benzo(g,h,i)perylene	<0.026	ug/L	0.056	0.026	1	10/11/24 11:03	10/14/24 22:25	191-24-2	
Chrysene	<0.014	ug/L	0.056	0.014	1	10/11/24 11:03	10/14/24 22:25	218-01-9	
Fluoranthene	0.36	ug/L	0.056	0.029	1	10/11/24 11:03	10/14/24 22:25	206-44-0	
Fluorene	0.046J	ug/L	0.056	0.026	1	10/11/24 11:03	10/14/24 22:25	86-73-7	
Naphthalene	0.031J	ug/L	0.056	0.022	1	10/11/24 11:03	10/14/24 22:25	91-20-3	
Phenanthrene	<0.029	ug/L	0.056	0.029	1	10/11/24 11:03	10/14/24 22:25	85-01-8	
Pyrene	0.26	ug/L	0.056	0.025	1	10/11/24 11:03	10/14/24 22:25	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	33-123		1	10/11/24 11:03	10/14/24 22:25	321-60-8	
Terphenyl-d14 (S)	76	%	36-134		1	10/11/24 11:03	10/14/24 22:25	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		10/14/24 16:56	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/24 16:56	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 16:56	108-88-3	

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824009 Lab ID: 40285415009 Collected: 10/08/24 15:37 Received: 10/09/24 07:40 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		10/14/24 16:56	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/24 16:56	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/24 16:56	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/14/24 16:56	2199-69-1	
4-Bromofluorobenzene (S)	101	%	70-130		1		10/14/24 16:56	460-00-4	
Toluene-d8 (S)	98	%	70-130		1		10/14/24 16:56	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	9.6J	mg/L	10.0	2.2	5		10/23/24 14:04	14808-79-8	D3
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	407	mg/L	25.0	7.4	1		10/15/24 11:15		
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		10/21/24 10:12		

Sample: 100824010 Lab ID: 40285415010 Collected: 10/08/24 16:03 Received: 10/09/24 07:40 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	98.7	ug/L	5.6	1.2	2		10/10/24 14:43	74-82-8	
6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<117	ug/L	500	117	2	10/10/24 09:38	10/15/24 09:16	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 09:16	7440-36-0	D3
Copper, Dissolved	34.3	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 09:16	7440-50-8	
Iron, Dissolved	2530	ug/L	500	116	2	10/10/24 09:38	10/15/24 09:16	7439-89-6	
Manganese, Dissolved	2970	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 09:16	7439-96-5	
Nickel, Dissolved	13.9	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 09:16	7440-02-0	
Silver, Dissolved	0.30J	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 09:16	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 09:16	7440-62-2	D3
Zinc, Dissolved	137	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 09:16	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	<0.021	ug/L	0.057	0.021	1	10/11/24 11:03	10/14/24 22:44	120-12-7	

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824010 Lab ID: 40285415010 Collected: 10/08/24 16:03 Received: 10/09/24 07:40 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	<0.015	ug/L	0.057	0.015	1	10/11/24 11:03	10/14/24 22:44	50-32-8	
Benzo(b)fluoranthene	0.011J	ug/L	0.057	0.010	1	10/11/24 11:03	10/14/24 22:44	205-99-2	
Benzo(g,h,i)perylene	<0.027	ug/L	0.057	0.027	1	10/11/24 11:03	10/14/24 22:44	191-24-2	
Chrysene	<0.014	ug/L	0.057	0.014	1	10/11/24 11:03	10/14/24 22:44	218-01-9	
Fluoranthene	<0.030	ug/L	0.057	0.030	1	10/11/24 11:03	10/14/24 22:44	206-44-0	
Fluorene	<0.027	ug/L	0.057	0.027	1	10/11/24 11:03	10/14/24 22:44	86-73-7	
Naphthalene	0.030J	ug/L	0.057	0.023	1	10/11/24 11:03	10/14/24 22:44	91-20-3	
Phenanthrene	<0.029	ug/L	0.057	0.029	1	10/11/24 11:03	10/14/24 22:44	85-01-8	
Pyrene	<0.026	ug/L	0.057	0.026	1	10/11/24 11:03	10/14/24 22:44	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	33-123		1	10/11/24 11:03	10/14/24 22:44	321-60-8	
Terphenyl-d14 (S)	81	%	36-134		1	10/11/24 11:03	10/14/24 22:44	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		10/14/24 17:12	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/24 17:12	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 17:12	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/24 17:12	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/24 17:12	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/24 17:12	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/14/24 17:12	2199-69-1	
4-Bromofluorobenzene (S)	101	%	70-130		1		10/14/24 17:12	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		10/14/24 17:12	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	306	mg/L	40.0	8.9	20		10/23/24 14:17	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	683	mg/L	50.0	14.9	2		10/15/24 15:25		
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		10/21/24 10:15		

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824011 Lab ID: 40285415011 Collected: 10/08/24 16:32 Received: 10/09/24 07:40 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	7120	ug/L	280	57.6	100		10/14/24 13:48	74-82-8	
6020B MET ICPMS, Dissolved Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<117	ug/L	500	117	2	10/10/24 09:38	10/15/24 09:21	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 09:21	7440-36-0	D3
Copper, Dissolved	7.0J	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 09:21	7440-50-8	D3
Iron, Dissolved	36900	ug/L	500	116	2	10/10/24 09:38	10/15/24 09:21	7439-89-6	
Manganese, Dissolved	906	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 09:21	7439-96-5	
Nickel, Dissolved	0.81J	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 09:21	7440-02-0	D3
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 09:21	7440-22-4	D3
Vanadium, Dissolved	1.6J	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 09:21	7440-62-2	D3
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 09:21	7440-66-6	D3
8270E MSSV PAH Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	8.6	ug/L	2.7	1.0	50	10/11/24 11:03	10/15/24 00:52	120-12-7	
Benzo(a)pyrene	<0.69	ug/L	2.7	0.69	50	10/11/24 11:03	10/15/24 00:52	50-32-8	
Benzo(b)fluoranthene	<0.50	ug/L	2.7	0.50	50	10/11/24 11:03	10/15/24 00:52	205-99-2	
Benzo(g,h,i)perylene	<1.3	ug/L	2.7	1.3	50	10/11/24 11:03	10/15/24 00:52	191-24-2	
Chrysene	<0.69	ug/L	2.7	0.69	50	10/11/24 11:03	10/15/24 00:52	218-01-9	
Fluoranthene	4.5	ug/L	2.7	1.4	50	10/11/24 11:03	10/15/24 00:52	206-44-0	
Fluorene	35.2	ug/L	2.7	1.3	50	10/11/24 11:03	10/15/24 00:52	86-73-7	
Naphthalene	572	ug/L	2.7	1.1	50	10/11/24 11:03	10/15/24 00:52	91-20-3	
Phenanthrene	41.6	ug/L	2.7	1.4	50	10/11/24 11:03	10/15/24 00:52	85-01-8	
Pyrene	3.7	ug/L	2.7	1.2	50	10/11/24 11:03	10/15/24 00:52	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	33-123		50	10/11/24 11:03	10/15/24 00:52	321-60-8	
Terphenyl-d14 (S)	68	%	36-134		50	10/11/24 11:03	10/15/24 00:52	1718-51-0	
8260 MSV UST Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	107	ug/L	2.0	0.59	2		10/14/24 18:31	71-43-2	
Ethylbenzene	84.1	ug/L	2.0	0.65	2		10/14/24 18:31	100-41-4	
Toluene	3.2	ug/L	2.0	0.58	2		10/14/24 18:31	108-88-3	
Xylene (Total)	58.6	ug/L	6.0	2.1	2		10/14/24 18:31	1330-20-7	
m&p-Xylene	10.8	ug/L	4.0	1.4	2		10/14/24 18:31	179601-23-1	
o-Xylene	47.9	ug/L	2.0	0.70	2		10/14/24 18:31	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		2		10/14/24 18:31	2199-69-1	
4-Bromofluorobenzene (S)	100	%	70-130		2		10/14/24 18:31	460-00-4	
Toluene-d8 (S)	97	%	70-130		2		10/14/24 18:31	2037-26-5	

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824011 Lab ID: 40285415011 Collected: 10/08/24 16:32 Received: 10/09/24 07:40 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	<2.2	mg/L	10.0	2.2	5		10/23/24 14:29	14808-79-8	D3
310.2 Alkalinity Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO ₃	724	mg/L	50.0	14.9	2		10/15/24 15:29		
353.2 Nitrogen, NO₂/NO₃ pres. Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO ₂ plus NO ₃	<0.059	mg/L	0.25	0.059	1		10/21/24 10:16		

Sample: 100824012 Lab ID: 40285415012 Collected: 10/08/24 17:14 Received: 10/09/24 07:40 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	232	ug/L	2.8	0.58	1		10/14/24 09:15	74-82-8	
6020B MET ICPMS, Dissolved Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<117	ug/L	500	117	2	10/10/24 09:38	10/15/24 09:25	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 09:25	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 09:25	7440-50-8	D3
Iron, Dissolved	14000	ug/L	500	116	2	10/10/24 09:38	10/15/24 09:25	7439-89-6	
Manganese, Dissolved	791	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 09:25	7439-96-5	
Nickel, Dissolved	<0.57	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 09:25	7440-02-0	D3
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 09:25	7440-22-4	D3
Vanadium, Dissolved	2.4	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 09:25	7440-62-2	
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 09:25	7440-66-6	D3
8270E MSSV PAH Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	<0.020	ug/L	0.054	0.020	1	10/11/24 11:03	10/14/24 23:02	120-12-7	
Benzo(a)pyrene	<0.014	ug/L	0.054	0.014	1	10/11/24 11:03	10/14/24 23:02	50-32-8	
Benzo(b)fluoranthene	<0.0098	ug/L	0.054	0.0098	1	10/11/24 11:03	10/14/24 23:02	205-99-2	
Benzo(g,h,i)perylene	<0.025	ug/L	0.054	0.025	1	10/11/24 11:03	10/14/24 23:02	191-24-2	
Chrysene	<0.014	ug/L	0.054	0.014	1	10/11/24 11:03	10/14/24 23:02	218-01-9	
Fluoranthene	<0.028	ug/L	0.054	0.028	1	10/11/24 11:03	10/14/24 23:02	206-44-0	
Fluorene	<0.025	ug/L	0.054	0.025	1	10/11/24 11:03	10/14/24 23:02	86-73-7	
Naphthalene	7.0	ug/L	0.054	0.022	1	10/11/24 11:03	10/14/24 23:02	91-20-3	
Phenanthrene	<0.028	ug/L	0.054	0.028	1	10/11/24 11:03	10/14/24 23:02	85-01-8	
Pyrene	0.24	ug/L	0.054	0.024	1	10/11/24 11:03	10/14/24 23:02	129-00-0	

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824012 Lab ID: 40285415012 Collected: 10/08/24 17:14 Received: 10/09/24 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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8270E MSSV PAH
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510
Pace Analytical Services - Green Bay

Surrogates

2-Fluorobiphenyl (S)	70	%	33-123		1	10/11/24 11:03	10/14/24 23:02	321-60-8	
Terphenyl-d14 (S)	83	%	36-134		1	10/11/24 11:03	10/14/24 23:02	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		10/14/24 17:28	71-43-2	
Ethylbenzene	2.0	ug/L	1.0	0.33	1		10/14/24 17:28	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 17:28	108-88-3	
Xylene (Total)	10.3	ug/L	3.0	1.0	1		10/14/24 17:28	1330-20-7	
m&p-Xylene	2.2	ug/L	2.0	0.70	1		10/14/24 17:28	179601-23-1	
o-Xylene	8.1	ug/L	1.0	0.35	1		10/14/24 17:28	95-47-6	

Surrogates

1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/14/24 17:28	2199-69-1	
4-Bromofluorobenzene (S)	100	%	70-130		1		10/14/24 17:28	460-00-4	
Toluene-d8 (S)	98	%	70-130		1		10/14/24 17:28	2037-26-5	

300.0 IC Anions
Analytical Method: EPA 300.0
Pace Analytical Services - Green Bay

Sulfate	159	mg/L	10.0	2.2	5		10/23/24 14:42	14808-79-8	
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310.2 Alkalinity
Analytical Method: EPA 310.2
Pace Analytical Services - Green Bay

Alkalinity, Total as CaCO ₃	247	mg/L	25.0	7.4	1		10/15/24 11:18		
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353.2 Nitrogen, NO₂/NO₃ pres.
Analytical Method: EPA 353.2
Pace Analytical Services - Green Bay

Nitrogen, NO ₂ plus NO ₃	<0.059	mg/L	0.25	0.059	1		10/21/24 10:17		
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Sample: 100824013 Lab ID: 40285415013 Collected: 10/08/24 17:47 Received: 10/09/24 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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Methane, Ethane, Ethene GCV
Analytical Method: EPA 8015B Modified
Pace Analytical Services - Green Bay

Methane	13300	ug/L	280	57.6	100		10/14/24 13:55	74-82-8	
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6020B MET ICPMS, Dissolved
Analytical Method: EPA 6020B Preparation Method: EPA 3010A
Pace Analytical Services - Green Bay

Aluminum, Dissolved	<117	ug/L	500	117	2	10/10/24 09:38	10/15/24 09:29	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 09:29	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 09:29	7440-50-8	D3
Iron, Dissolved	40300	ug/L	500	116	2	10/10/24 09:38	10/15/24 09:29	7439-89-6	

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824013 Lab ID: 40285415013 Collected: 10/08/24 17:47 Received: 10/09/24 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Manganese, Dissolved	1380	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 09:29	7439-96-5	
Nickel, Dissolved	<0.57	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 09:29	7440-02-0	D3
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 09:29	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 09:29	7440-62-2	D3
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 09:29	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	0.057	0.021	1	10/11/24 11:03	10/14/24 23:20	120-12-7	
Benzo(a)pyrene	<0.015	ug/L	0.057	0.015	1	10/11/24 11:03	10/14/24 23:20	50-32-8	
Benzo(b)fluoranthene	<0.010	ug/L	0.057	0.010	1	10/11/24 11:03	10/14/24 23:20	205-99-2	
Benzo(g,h,i)perylene	<0.027	ug/L	0.057	0.027	1	10/11/24 11:03	10/14/24 23:20	191-24-2	
Chrysene	<0.014	ug/L	0.057	0.014	1	10/11/24 11:03	10/14/24 23:20	218-01-9	
Fluoranthene	0.074	ug/L	0.057	0.030	1	10/11/24 11:03	10/14/24 23:20	206-44-0	
Fluorene	0.13	ug/L	0.057	0.027	1	10/11/24 11:03	10/14/24 23:20	86-73-7	
Naphthalene	<0.023	ug/L	0.057	0.023	1	10/11/24 11:03	10/14/24 23:20	91-20-3	
Phenanthrene	0.14	ug/L	0.057	0.029	1	10/11/24 11:03	10/14/24 23:20	85-01-8	
Pyrene	0.065	ug/L	0.057	0.026	1	10/11/24 11:03	10/14/24 23:20	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	33-123		1	10/11/24 11:03	10/14/24 23:20	321-60-8	
Terphenyl-d14 (S)	71	%	36-134		1	10/11/24 11:03	10/14/24 23:20	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		10/14/24 14:05	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/24 14:05	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 14:05	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/24 14:05	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/24 14:05	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/24 14:05	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/14/24 14:05	2199-69-1	
4-Bromofluorobenzene (S)	101	%	70-130		1		10/14/24 14:05	460-00-4	
Toluene-d8 (S)	98	%	70-130		1		10/14/24 14:05	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	3.9J	mg/L	10.0	2.2	5		10/23/24 14:55	14808-79-8	D3
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	841	mg/L	50.0	14.9	2		10/15/24 15:30		

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824013 Lab ID: 40285415013 Collected: 10/08/24 17:47 Received: 10/09/24 07:40 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	<0.059	mg/L	0.25	0.059	1		10/21/24 10:18		

Sample: 100824014 Lab ID: 40285415014 Collected: 10/08/24 18:15 Received: 10/09/24 07:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Methane	3420	ug/L	70.0	14.4	25		10/14/24 14:02	74-82-8	

6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<117	ug/L	500	117	2	10/10/24 09:38	10/15/24 09:33	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/10/24 09:38	10/15/24 09:33	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/10/24 09:38	10/15/24 09:33	7440-50-8	D3
Iron, Dissolved	20800	ug/L	500	116	2	10/10/24 09:38	10/15/24 09:33	7439-89-6	
Manganese, Dissolved	800	ug/L	8.1	2.4	2	10/10/24 09:38	10/15/24 09:33	7439-96-5	
Nickel, Dissolved	0.66J	ug/L	2.0	0.57	2	10/10/24 09:38	10/15/24 09:33	7440-02-0	D3
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/10/24 09:38	10/15/24 09:33	7440-22-4	D3
Vanadium, Dissolved	4.4	ug/L	2.1	0.63	2	10/10/24 09:38	10/15/24 09:33	7440-62-2	
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/10/24 09:38	10/15/24 09:33	7440-66-6	D3

8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.046J	ug/L	0.055	0.020	1	10/11/24 11:03	10/14/24 23:39	120-12-7	
Benzo(a)pyrene	0.021J	ug/L	0.055	0.014	1	10/11/24 11:03	10/14/24 23:39	50-32-8	
Benzo(b)fluoranthene	0.044J	ug/L	0.055	0.010	1	10/11/24 11:03	10/14/24 23:39	205-99-2	
Benzo(g,h,i)perylene	0.027J	ug/L	0.055	0.026	1	10/11/24 11:03	10/14/24 23:39	191-24-2	
Chrysene	0.034J	ug/L	0.055	0.014	1	10/11/24 11:03	10/14/24 23:39	218-01-9	
Fluoranthene	0.17	ug/L	0.055	0.029	1	10/11/24 11:03	10/14/24 23:39	206-44-0	
Fluorene	0.87	ug/L	0.055	0.026	1	10/11/24 11:03	10/14/24 23:39	86-73-7	
Naphthalene	0.27	ug/L	0.055	0.022	1	10/11/24 11:03	10/14/24 23:39	91-20-3	
Phenanthrene	0.040J	ug/L	0.055	0.028	1	10/11/24 11:03	10/14/24 23:39	85-01-8	
Pyrene	0.12	ug/L	0.055	0.025	1	10/11/24 11:03	10/14/24 23:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	33-123		1	10/11/24 11:03	10/14/24 23:39	321-60-8	
Terphenyl-d14 (S)	82	%	36-134		1	10/11/24 11:03	10/14/24 23:39	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		10/14/24 17:44	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/24 17:44	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 17:44	108-88-3	

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824014 Lab ID: 40285415014 Collected: 10/08/24 18:15 Received: 10/09/24 07:40 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		10/14/24 17:44	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/24 17:44	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/24 17:44	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/14/24 17:44	2199-69-1	
4-Bromofluorobenzene (S)	100	%	70-130		1		10/14/24 17:44	460-00-4	
Toluene-d8 (S)	98	%	70-130		1		10/14/24 17:44	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	6.1J	mg/L	10.0	2.2	5		10/23/24 15:08	14808-79-8	D3
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	440	mg/L	25.0	7.4	1		10/15/24 11:23		
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		10/21/24 10:18		

Sample: 100824015 Lab ID: 40285415015 Collected: 10/08/24 18:30 Received: 10/09/24 07:40 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	<0.58	ug/L	2.8	0.58	1		10/14/24 11:58	74-82-8	
6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	10/10/24 09:38	10/17/24 11:55	7429-90-5	
Antimony, Dissolved	<0.15	ug/L	1.0	0.15	1	10/10/24 09:38	10/17/24 11:55	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	10/10/24 09:38	10/17/24 11:55	7440-50-8	
Iron, Dissolved	<58.0	ug/L	250	58.0	1	10/10/24 09:38	10/17/24 11:55	7439-89-6	
Manganese, Dissolved	<1.2	ug/L	4.0	1.2	1	10/10/24 09:38	10/17/24 11:55	7439-96-5	
Nickel, Dissolved	<0.28	ug/L	1.0	0.28	1	10/10/24 09:38	10/17/24 11:55	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	10/10/24 09:38	10/17/24 11:55	7440-22-4	
Vanadium, Dissolved	<0.32	ug/L	1.0	0.32	1	10/10/24 09:38	10/17/24 11:55	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	10/10/24 09:38	10/17/24 11:55	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	<0.018	ug/L	0.050	0.018	1	10/11/24 11:03	10/14/24 23:57	120-12-7	

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ANALYTICAL RESULTS

Project: MARINETTE MGP
Pace Project No.: 40285415

Sample: 100824015 Lab ID: 40285415015 Collected: 10/08/24 18:30 Received: 10/09/24 07:40 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	<0.013	ug/L	0.050	0.013	1	10/11/24 11:03	10/14/24 23:57	50-32-8	
Benzo(b)fluoranthene	<0.0090	ug/L	0.050	0.0090	1	10/11/24 11:03	10/14/24 23:57	205-99-2	
Benzo(g,h,i)perylene	<0.023	ug/L	0.050	0.023	1	10/11/24 11:03	10/14/24 23:57	191-24-2	
Chrysene	<0.012	ug/L	0.050	0.012	1	10/11/24 11:03	10/14/24 23:57	218-01-9	
Fluoranthene	<0.026	ug/L	0.050	0.026	1	10/11/24 11:03	10/14/24 23:57	206-44-0	
Fluorene	<0.023	ug/L	0.050	0.023	1	10/11/24 11:03	10/14/24 23:57	86-73-7	
Naphthalene	0.042J	ug/L	0.050	0.020	1	10/11/24 11:03	10/14/24 23:57	91-20-3	
Phenanthrene	0.031J	ug/L	0.050	0.025	1	10/11/24 11:03	10/14/24 23:57	85-01-8	
Pyrene	<0.022	ug/L	0.050	0.022	1	10/11/24 11:03	10/14/24 23:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	33-123		1	10/11/24 11:03	10/14/24 23:57	321-60-8	
Terphenyl-d14 (S)	81	%	36-134		1	10/11/24 11:03	10/14/24 23:57	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		10/14/24 17:59	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/24 17:59	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 17:59	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/24 17:59	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/24 17:59	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/24 17:59	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/14/24 17:59	2199-69-1	
4-Bromofluorobenzene (S)	100	%	70-130		1		10/14/24 17:59	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		10/14/24 17:59	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	0.65J	mg/L	2.0	0.44	1		10/23/24 15:21	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<7.4	mg/L	25.0	7.4	1		10/15/24 11:24		
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		10/21/24 10:19		

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ANALYTICAL RESULTS

Project: MARINETTE MGP

Pace Project No.: 40285415

Sample: 100824016 Lab ID: 40285415016 Collected: 10/08/24 00:00 Received: 10/09/24 07:40 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		10/14/24 09:53	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/24 09:53	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/24 09:53	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/24 09:53	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/24 09:53	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/24 09:53	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/14/24 09:53	2199-69-1	
4-Bromofluorobenzene (S)	100	%	70-130		1		10/14/24 09:53	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		10/14/24 09:53	2037-26-5	

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QUALITY CONTROL DATA

Project: MARINETTE MGP

Pace Project No.: 40285415

QC Batch:	486804	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:	40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007, 40285415008, 40285415009, 40285415010		

METHOD BLANK:	2787783	Matrix:	Water
Associated Lab Samples:	40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007, 40285415008, 40285415009, 40285415010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.58	2.8	10/10/24 12:10	

LABORATORY CONTROL SAMPLE & LCSD:		2787784	2787785							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	31.5	23.4	110	82	73-121	30	20	R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:					2787786	2787787							
Parameter	Units	40285415002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Methane	ug/L	20.2	28.6	28.6	53.1	56.6	115	127	10-184	6	33		

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QUALITY CONTROL DATA

Project: MARINETTE MGP

Pace Project No.: 40285415

QC Batch:	487042	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: 40285415011, 40285415012, 40285415013, 40285415014, 40285415015

METHOD BLANK:	2789633	Matrix:	Water
Associated Lab Samples:	40285415011, 40285415012, 40285415013, 40285415014, 40285415015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.58	2.8	10/14/24 07:52	

LABORATORY CONTROL SAMPLE & LCSD:		2789634	2789635							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	32.7	31.8	115	111	73-121	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:					2789636	2789637							
Parameter	Units	40285482004	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
		Result	Spike Conc.	Spike Conc.								Result	Result
Methane	ug/L	7600	2860	2860	7620	9570	1	69	10-184	23	33	M1	

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QUALITY CONTROL DATA

Project: MARINETTE MGP
Pace Project No.: 40285415

QC Batch:	486809	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3010A	Analysis Description:	6020B MET Dissolved
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007, 40285415008, 40285415009, 40285415010, 40285415011, 40285415012, 40285415013, 40285415014, 40285415015		

METHOD BLANK:	2787804	Matrix:	Water
Associated Lab Samples:	40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007, 40285415008, 40285415009, 40285415010, 40285415011, 40285415012, 40285415013, 40285415014, 40285415015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<58.7	250	10/15/24 07:35	
Antimony, Dissolved	ug/L	0.26J	1.0	10/15/24 07:35	
Copper, Dissolved	ug/L	<1.9	6.4	10/15/24 07:35	
Iron, Dissolved	ug/L	<58.0	250	10/15/24 07:35	
Manganese, Dissolved	ug/L	<1.2	4.0	10/15/24 07:35	
Nickel, Dissolved	ug/L	<0.28	1.0	10/15/24 07:35	
Silver, Dissolved	ug/L	<0.13	0.50	10/15/24 07:35	
Vanadium, Dissolved	ug/L	<0.32	1.0	10/15/24 07:35	
Zinc, Dissolved	ug/L	<10.3	34.4	10/15/24 07:35	

LABORATORY CONTROL SAMPLE: 2787805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9990	100	80-120	
Antimony, Dissolved	ug/L	250	243	97	80-120	
Copper, Dissolved	ug/L	250	254	102	80-120	
Iron, Dissolved	ug/L	10000	10200	102	80-120	
Manganese, Dissolved	ug/L	250	250	100	80-120	
Nickel, Dissolved	ug/L	250	253	101	80-120	
Silver, Dissolved	ug/L	125	126	101	80-120	
Vanadium, Dissolved	ug/L	250	246	98	80-120	
Zinc, Dissolved	ug/L	250	248	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2787846 2787847

Parameter	Units	40285415002	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result										
Aluminum, Dissolved	ug/L	<117	10000	10000	9980	9710	100	97	75-125	3	20	
Antimony, Dissolved	ug/L	<0.30	250	250	246	243	98	97	75-125	1	20	
Copper, Dissolved	ug/L	<3.8	250	250	252	252	100	100	75-125	0	20	
Iron, Dissolved	ug/L	686	10000	10000	10800	10700	101	101	75-125	0	20	
Manganese, Dissolved	ug/L	368	250	250	615	611	99	97	75-125	1	20	
Nickel, Dissolved	ug/L	<0.57	250	250	255	254	102	101	75-125	0	20	
Silver, Dissolved	ug/L	<0.25	125	125	125	123	100	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: MARINETTE MGP
Pace Project No.: 40285415

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2787846 2787847												
Parameter	Units	40285415002 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	<0.63	250	250	251	251	100	100	75-125	0	20	
Zinc, Dissolved	ug/L	<20.7	250	250	253	249	96	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: MARINETTE MGP
Pace Project No.: 40285415

QC Batch:	486963	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007, 40285415008, 40285415009, 40285415010, 40285415011, 40285415012, 40285415013, 40285415014, 40285415015, 40285415016		

METHOD BLANK:	2788710	Matrix:	Water
Associated Lab Samples:	40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007, 40285415008, 40285415009, 40285415010, 40285415011, 40285415012, 40285415013, 40285415014, 40285415015, 40285415016		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.30	1.0	10/14/24 08:34	
Ethylbenzene	ug/L	<0.33	1.0	10/14/24 08:34	
m&p-Xylene	ug/L	<0.70	2.0	10/14/24 08:34	
o-Xylene	ug/L	<0.35	1.0	10/14/24 08:34	
Toluene	ug/L	<0.29	1.0	10/14/24 08:34	
Xylene (Total)	ug/L	<1.0	3.0	10/14/24 08:34	
1,2-Dichlorobenzene-d4 (S)	%	98	70-130	10/14/24 08:34	
4-Bromofluorobenzene (S)	%	100	70-130	10/14/24 08:34	
Toluene-d8 (S)	%	98	70-130	10/14/24 08:34	

LABORATORY CONTROL SAMPLE: 2788711						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	49.7	99	70-130	
Ethylbenzene	ug/L	50	54.1	108	80-125	
m&p-Xylene	ug/L	100	103	103	70-130	
o-Xylene	ug/L	50	50.8	102	70-130	
Toluene	ug/L	50	51.2	102	80-120	
Xylene (Total)	ug/L	150	154	103	70-130	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2788712 2788713												
Parameter	Units	40285415002 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	48.3	50.4	97	101	70-130	4	20	
Ethylbenzene	ug/L	<0.33	50	50	52.7	53.4	105	107	80-126	1	20	
m&p-Xylene	ug/L	<0.70	100	100	99.9	104	100	104	70-130	4	20	
o-Xylene	ug/L	<0.35	50	50	49.8	51.1	100	102	70-130	3	20	
Toluene	ug/L	<0.29	50	50	48.8	51.3	98	103	80-121	5	20	
Xylene (Total)	ug/L	<1.0	150	150	150	155	100	103	70-130	3	20	
1,2-Dichlorobenzene-d4 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: MARINETTE MGP
Pace Project No.: 40285415

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
2788712					2788713							
		40285415002	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	% Rec	Limits	RPD	Qual
4-Bromofluorobenzene (S)	%						103	103	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: MARINETTE MGP
Pace Project No.: 40285415

QC Batch:	486925	Analysis Method:	EPA 8270E by SIM
QC Batch Method:	EPA 3510	Analysis Description:	8270E Water PAH
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007

METHOD BLANK: 2788607 Matrix: Water
Associated Lab Samples: 40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	<0.018	0.050	10/14/24 15:42	
Benzo(a)pyrene	ug/L	<0.013	0.050	10/14/24 15:42	
Benzo(b)fluoranthene	ug/L	<0.0091	0.050	10/14/24 15:42	
Benzo(g,h,i)perylene	ug/L	<0.023	0.050	10/14/24 15:42	
Chrysene	ug/L	<0.013	0.050	10/14/24 15:42	
Fluoranthene	ug/L	<0.026	0.050	10/14/24 15:42	
Fluorene	ug/L	<0.024	0.050	10/14/24 15:42	
Naphthalene	ug/L	<0.020	0.050	10/14/24 15:42	
Phenanthrene	ug/L	<0.026	0.050	10/14/24 15:42	
Pyrene	ug/L	<0.023	0.050	10/14/24 15:42	
2-Fluorobiphenyl (S)	%	87	33-123	10/14/24 15:42	
Terphenyl-d14 (S)	%	100	36-134	10/14/24 15:42	

LABORATORY CONTROL SAMPLE: 2788608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Anthracene	ug/L	2	2.0	99	61-120	
Benzo(a)pyrene	ug/L	2	2.0	101	60-120	
Benzo(b)fluoranthene	ug/L	2	2.0	98	56-120	
Benzo(g,h,i)perylene	ug/L	2	2.0	98	57-120	
Chrysene	ug/L	2	2.0	98	62-125	
Fluoranthene	ug/L	2	2.1	107	62-120	
Fluorene	ug/L	2	2.0	98	57-120	
Naphthalene	ug/L	2	1.9	94	46-120	
Phenanthrene	ug/L	2	2.0	100	63-120	
Pyrene	ug/L	2	1.9	96	52-120	
2-Fluorobiphenyl (S)	%			85	33-123	
Terphenyl-d14 (S)	%			96	36-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2788609 2788610

Parameter	Units	40285415002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Anthracene	ug/L	<0.019	2.1	2.1	2.2	2.1	104	96	37-120	6	29	
Benzo(a)pyrene	ug/L	0.017J	2.1	2.1	2.1	2.1	100	97	31-120	2	34	
Benzo(b)fluoranthene	ug/L	0.017J	2.1	2.1	2.1	2.0	97	93	29-124	2	25	
Benzo(g,h,i)perylene	ug/L	<0.024	2.1	2.1	2.2	2.1	101	98	17-124	2	29	

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QUALITY CONTROL DATA

Project: MARINETTE MGP

Pace Project No.: 40285415

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2788609 2788610												
Parameter	Units	40285415002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chrysene	ug/L	<0.013	2.1	2.1	2.2	2.2	103	102	25-153	1	29	
Fluoranthene	ug/L	<0.027	2.1	2.1	2.3	2.3	107	104	39-129	0	30	
Fluorene	ug/L	<0.025	2.1	2.1	2.0	2.0	96	93	41-120	1	28	
Naphthalene	ug/L	0.037J	2.1	2.1	2.0	2.0	95	92	16-136	1	39	
Phenanthrene	ug/L	<0.027	2.1	2.1	2.1	2.1	98	95	39-120	1	28	
Pyrene	ug/L	0.033J	2.1	2.1	2.0	2.0	94	92	31-122	0	27	
2-Fluorobiphenyl (S)	%						88	85	33-123			
Terphenyl-d14 (S)	%						93	90	36-134			

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QUALITY CONTROL DATA

Project: MARINETTE MGP
Pace Project No.: 40285415

QC Batch:	486962	Analysis Method:	EPA 8270E by SIM
QC Batch Method:	EPA 3510	Analysis Description:	8270E Water PAH
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40285415008, 40285415009, 40285415010, 40285415011, 40285415012, 40285415013, 40285415014, 40285415015

METHOD BLANK: 2788705 Matrix: Water
Associated Lab Samples: 40285415008, 40285415009, 40285415010, 40285415011, 40285415012, 40285415013, 40285415014, 40285415015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	<0.018	0.050	10/14/24 16:00	
Benzo(a)pyrene	ug/L	<0.013	0.050	10/14/24 16:00	
Benzo(b)fluoranthene	ug/L	<0.0091	0.050	10/14/24 16:00	
Benzo(g,h,i)perylene	ug/L	<0.023	0.050	10/14/24 16:00	
Chrysene	ug/L	<0.013	0.050	10/14/24 16:00	
Fluoranthene	ug/L	<0.026	0.050	10/14/24 16:00	
Fluorene	ug/L	<0.024	0.050	10/14/24 16:00	
Naphthalene	ug/L	<0.020	0.050	10/14/24 16:00	
Phenanthrene	ug/L	<0.026	0.050	10/14/24 16:00	
Pyrene	ug/L	<0.023	0.050	10/14/24 16:00	
2-Fluorobiphenyl (S)	%	72	33-123	10/14/24 16:00	
Terphenyl-d14 (S)	%	83	36-134	10/14/24 16:00	

LABORATORY CONTROL SAMPLE & LCSD:		2788706	2788707							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Anthracene	ug/L	2	1.7	1.7	83	86	61-120	3	20	
Benzo(a)pyrene	ug/L	2	1.6	1.7	81	86	60-120	6	20	
Benzo(b)fluoranthene	ug/L	2	1.7	1.7	84	87	56-120	4	20	
Benzo(g,h,i)perylene	ug/L	2	1.6	1.7	80	84	57-120	5	20	
Chrysene	ug/L	2	1.7	1.7	83	85	62-125	3	20	
Fluoranthene	ug/L	2	1.8	1.9	91	95	62-120	5	20	
Fluorene	ug/L	2	1.7	1.7	83	87	57-120	5	20	
Naphthalene	ug/L	2	1.6	1.7	82	84	46-120	3	20	
Phenanthrene	ug/L	2	1.7	1.8	84	88	63-120	5	20	
Pyrene	ug/L	2	1.6	1.7	81	83	52-120	3	20	
2-Fluorobiphenyl (S)	%				73	75	33-123			
Terphenyl-d14 (S)	%				80	83	36-134			

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QUALITY CONTROL DATA

Project: MARINETTE MGP
Pace Project No.: 40285415

QC Batch:	487853	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:	40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007, 40285415008, 40285415009, 40285415010, 40285415011, 40285415012, 40285415013, 40285415014, 40285415015		

METHOD BLANK:	2794165	Matrix:	Water
Associated Lab Samples:	40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007, 40285415008, 40285415009, 40285415010, 40285415011, 40285415012, 40285415013, 40285415014, 40285415015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	10/23/24 00:42	

LABORATORY CONTROL SAMPLE:	2794166					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2794167			2794168								
Parameter	Units	40285315002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	51.5J	2000	2000	2140	2100	104	103	90-110	2	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2794169			2794170								
Parameter	Units	40285415002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	53.1	100	100	158	158	105	105	90-110	1	15	

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QUALITY CONTROL DATA

Project: MARINETTE MGP
Pace Project No.: 40285415

QC Batch:	487142	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:	40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007, 40285415008, 40285415009, 40285415010, 40285415011, 40285415012, 40285415013, 40285415014, 40285415015		

METHOD BLANK:	2789887	Matrix:	Water
Associated Lab Samples:	40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007, 40285415008, 40285415009, 40285415010, 40285415011, 40285415012, 40285415013, 40285415014, 40285415015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<7.4	25.0	10/15/24 10:57	

LABORATORY CONTROL SAMPLE: 2789888						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ma/L	100	102	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:													2789889						2789890
			40285415002	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits		Max RPD	Qual						
Parameter	Units		Result																
Alkalinity, Total as CaCO3	mg/L		237	100	100	340	338	103	102	90-110	0	20							

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:													2789891					2789892
				MS	MSD													
		40285425001	Spike	Spike		MS	MSD	MS	MSD	% Rec		Max						
Parameter	Units	Result	Conc.	Conc.		Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual					
Alkalinity, Total as CaCO3	mg/L	360	100	100		456	461	96	101	90-110	1	20						

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QUALITY CONTROL DATA

Project: MARINETTE MGP
Pace Project No.: 40285415

QC Batch:	487715	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007, 40285415008, 40285415009, 40285415010, 40285415011, 40285415012, 40285415013, 40285415014, 40285415015		

METHOD BLANK:	2793437	Matrix:	Water
Associated Lab Samples:	40285415001, 40285415002, 40285415003, 40285415004, 40285415005, 40285415006, 40285415007, 40285415008, 40285415009, 40285415010, 40285415011, 40285415012, 40285415013, 40285415014, 40285415015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	10/21/24 09:56	

LABORATORY CONTROL SAMPLE: 2793438						
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:													2793439					2793440
			40284610002	MS Spike Conc.	MSD Spike Conc.													
Parameter	Units	Result				MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual					
Nitrogen, NO2 plus NO3	mg/L	62.7		25	25	86.5	87.0	95	97	90-110	1	20						

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
2793441					2793442							
		40285415002	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits		Max RPD	Qual
Parameter	Units	Result								RPD		
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.6	2.6	104	102	90-110	2	20	

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QUALIFIERS

Project: MARINETTE MGP
Pace Project No.: 40285415

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 - The reported result is an estimated value.
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.
DL - Adjusted Method Detection Limit.
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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.
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: 487009

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MARINETTE MGP
Pace Project No.: 40285415

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40285415001	100824001	EPA 8015B Modified	486804		
40285415002	100824002	EPA 8015B Modified	486804		
40285415003	100824003	EPA 8015B Modified	486804		
40285415004	100824004	EPA 8015B Modified	486804		
40285415005	100824005	EPA 8015B Modified	486804		
40285415006	100824006	EPA 8015B Modified	486804		
40285415007	100824007	EPA 8015B Modified	486804		
40285415008	100824008	EPA 8015B Modified	486804		
40285415009	100824009	EPA 8015B Modified	486804		
40285415010	100824010	EPA 8015B Modified	486804		
40285415011	100824011	EPA 8015B Modified	487042		
40285415012	100824012	EPA 8015B Modified	487042		
40285415013	100824013	EPA 8015B Modified	487042		
40285415014	100824014	EPA 8015B Modified	487042		
40285415015	100824015	EPA 8015B Modified	487042		
40285415001	100824001	EPA 3010A	486809	EPA 6020B	487001
40285415002	100824002	EPA 3010A	486809	EPA 6020B	487001
40285415003	100824003	EPA 3010A	486809	EPA 6020B	487001
40285415004	100824004	EPA 3010A	486809	EPA 6020B	487001
40285415005	100824005	EPA 3010A	486809	EPA 6020B	487001
40285415006	100824006	EPA 3010A	486809	EPA 6020B	487001
40285415007	100824007	EPA 3010A	486809	EPA 6020B	487001
40285415008	100824008	EPA 3010A	486809	EPA 6020B	487001
40285415009	100824009	EPA 3010A	486809	EPA 6020B	487001
40285415010	100824010	EPA 3010A	486809	EPA 6020B	487001
40285415011	100824011	EPA 3010A	486809	EPA 6020B	487001
40285415012	100824012	EPA 3010A	486809	EPA 6020B	487001
40285415013	100824013	EPA 3010A	486809	EPA 6020B	487001
40285415014	100824014	EPA 3010A	486809	EPA 6020B	487001
40285415015	100824015	EPA 3010A	486809	EPA 6020B	487001
40285415001	100824001	EPA 3510	486925	EPA 8270E by SIM	486976
40285415002	100824002	EPA 3510	486925	EPA 8270E by SIM	486976
40285415003	100824003	EPA 3510	486925	EPA 8270E by SIM	486976
40285415004	100824004	EPA 3510	486925	EPA 8270E by SIM	486976
40285415005	100824005	EPA 3510	486925	EPA 8270E by SIM	486976
40285415006	100824006	EPA 3510	486925	EPA 8270E by SIM	486976
40285415007	100824007	EPA 3510	486925	EPA 8270E by SIM	486976
40285415008	100824008	EPA 3510	486962	EPA 8270E by SIM	487009
40285415009	100824009	EPA 3510	486962	EPA 8270E by SIM	487009
40285415010	100824010	EPA 3510	486962	EPA 8270E by SIM	487009
40285415011	100824011	EPA 3510	486962	EPA 8270E by SIM	487009
40285415012	100824012	EPA 3510	486962	EPA 8270E by SIM	487009
40285415013	100824013	EPA 3510	486962	EPA 8270E by SIM	487009
40285415014	100824014	EPA 3510	486962	EPA 8270E by SIM	487009
40285415015	100824015	EPA 3510	486962	EPA 8270E by SIM	487009
40285415001	100824001	EPA 8260	486963		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MARINETTE MGP
Pace Project No.: 40285415

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40285415002	100824002	EPA 8260	486963		
40285415003	100824003	EPA 8260	486963		
40285415004	100824004	EPA 8260	486963		
40285415005	100824005	EPA 8260	486963		
40285415006	100824006	EPA 8260	486963		
40285415007	100824007	EPA 8260	486963		
40285415008	100824008	EPA 8260	486963		
40285415009	100824009	EPA 8260	486963		
40285415010	100824010	EPA 8260	486963		
40285415011	100824011	EPA 8260	486963		
40285415012	100824012	EPA 8260	486963		
40285415013	100824013	EPA 8260	486963		
40285415014	100824014	EPA 8260	486963		
40285415015	100824015	EPA 8260	486963		
40285415016	100824016	EPA 8260	486963		
40285415001	100824001	EPA 300.0	487853		
40285415002	100824002	EPA 300.0	487853		
40285415003	100824003	EPA 300.0	487853		
40285415004	100824004	EPA 300.0	487853		
40285415005	100824005	EPA 300.0	487853		
40285415006	100824006	EPA 300.0	487853		
40285415007	100824007	EPA 300.0	487853		
40285415008	100824008	EPA 300.0	487853		
40285415009	100824009	EPA 300.0	487853		
40285415010	100824010	EPA 300.0	487853		
40285415011	100824011	EPA 300.0	487853		
40285415012	100824012	EPA 300.0	487853		
40285415013	100824013	EPA 300.0	487853		
40285415014	100824014	EPA 300.0	487853		
40285415015	100824015	EPA 300.0	487853		
40285415001	100824001	EPA 310.2	487142		
40285415002	100824002	EPA 310.2	487142		
40285415003	100824003	EPA 310.2	487142		
40285415004	100824004	EPA 310.2	487142		
40285415005	100824005	EPA 310.2	487142		
40285415006	100824006	EPA 310.2	487142		
40285415007	100824007	EPA 310.2	487142		
40285415008	100824008	EPA 310.2	487142		
40285415009	100824009	EPA 310.2	487142		
40285415010	100824010	EPA 310.2	487142		
40285415011	100824011	EPA 310.2	487142		
40285415012	100824012	EPA 310.2	487142		
40285415013	100824013	EPA 310.2	487142		
40285415014	100824014	EPA 310.2	487142		
40285415015	100824015	EPA 310.2	487142		
40285415001	100824001	EPA 353.2	487715		
40285415002	100824002	EPA 353.2	487715		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MARINETTE MGP

Pace Project No.: 40285415

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40285415003	100824003	EPA 353.2	487715		
40285415004	100824004	EPA 353.2	487715		
40285415005	100824005	EPA 353.2	487715		
40285415006	100824006	EPA 353.2	487715		
40285415007	100824007	EPA 353.2	487715		
40285415008	100824008	EPA 353.2	487715		
40285415009	100824009	EPA 353.2	487715		
40285415010	100824010	EPA 353.2	487715		
40285415011	100824011	EPA 353.2	487715		
40285415012	100824012	EPA 353.2	487715		
40285415013	100824013	EPA 353.2	487715		
40285415014	100824014	EPA 353.2	487715		
40285415015	100824015	EPA 353.2	487715		

REPORT OF LABORATORY ANALYSIS

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ENV-FRM-CORQ-0019 v02 110123 ©

Effective Date: 8/16/2022

Client Name: O B G

Sample Preservation Receipt Form

Project # 40285415

All containers needing preservation have been checked and noted below:

☒ Yes ☐ No ☐ N/ALab Lot# of pH paper: 10D3733

Lab Std #ID of preservation (if pH adjusted):

Initial when completed: Scie Date/Time:

Pace Lab #	Glass						Plastic						Vials				Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T								ZPLC	GN 1	GN 2
001			10/24/24		2				1		1	1					6												X			X		2.5 / 5
002					6				3		3	3					18												X			X		2.5 / 5
003					2				1		1	1					6												X			X		2.5 / 5
004					2				1		1	1					6												X			X		2.5 / 5
005					2				1		1	1					6												X			X		2.5 / 5
006					2				1		1	1					6												X			X		2.5 / 5
007					2				1		1	1					6												X			X		2.5 / 5
008					2				1		1	1					6												X			X		2.5 / 5
009					2				1		1	1					6												X			X		2.5 / 5
010					2				1		1	1					6												X			X		2.5 / 5
011					2				1		1	1					6												X			X		2.5 / 5
012					2				1		1	1					6												X			X		2.5 / 5
013					2				1		1	1					6												X			X		2.5 / 5
014					2				1		1	1					6												X			X		2.5 / 5
015					2				1		1	1					6												X			X		2.5 / 5
016																	2																	2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:Headspace in VOA Vials (>6mm): ☐ Yes ☒ No ☐ N/A

*If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JG9U	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H ₂ SO ₄	BP3N	250 mL plastic HNO ₃	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H ₂ SO ₄	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H ₂ SO ₄	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 3

Sample Condition Upon Receipt Form (SCUR)

Client Name:

O'Brien & Gere

Project #:

WO#: 40285415

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Walco

☒ Client

☐ Pace

Other: _____



40285415

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-122 Type of Ice: ☒ Wet ☐ Blue Dry ☐ None ☐ Meltwater Only

Cooler Temperature Uncorr: 4.0, 4.0 Corr: 4.0, 4.0

Temp Blank Present: ☐ yes ☒ no

Biological Tissue is Frozen: ☐ yes ☐ no

Person examining contents:

Date: 10/09/24

/Initials: SKW

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Labeled By Initials: mtt

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
- DI 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:		8.
For Analysis: ☒ Yes ☐ No MS/MSD: ☒ Yes ☐ No ☐ N/A		
Correct Containers Used:	☒ Yes ☐ No	9.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace		
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: <u>W</u>		
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	13.
Trip Blank Custody Seals Present	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank Lot # (if purchased): <u>534</u>		

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 log in

Page 2 of 2



October 25, 2024

Emily Ruder
Ramboll
234 W Florida St
Fifth Floor
Milwaukee, WI 53204

RE: Project: Marinette Former MGP
Pace Project No.: 40285482

Dear Emily Ruder:

Enclosed are the analytical results for sample(s) received by the laboratory on October 09, 2024. 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,

A handwritten signature in black ink, appearing to read "Brian Basten".

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

Enclosures

cc: ERIC BAUER, Ramboll
Marcus Byker, Ramboll
NRT Data, Ramboll
Abigail Small, Ramboll
Scott Woods, Ramboll



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Marinette Former MGP

Pace Project No.: 40285482

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

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: Marinette Former MGP

Pace Project No.: 40285482

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40285482001	100924017	Water	10/09/24 09:26	10/09/24 16:30
40285482002	100924018	Water	10/09/24 09:58	10/09/24 16:30
40285482003	100924019	Water	10/09/24 10:33	10/09/24 16:30
40285482004	100924020	Water	10/09/24 11:09	10/09/24 16:30
40285482005	100924021	Water	10/09/24 12:10	10/09/24 16:30
40285482006	100924022	Water	10/09/24 13:00	10/09/24 16:30
40285482007	100924023	Water	10/09/24 13:25	10/09/24 16:30
40285482008	100924024	Water	10/09/24 13:30	10/09/24 16:30
40285482009	100924025	Water	10/09/24 14:00	10/09/24 16:30
40285482010	100924026	Water	10/09/24 14:05	10/09/24 16:30
40285482011	100924027	Water	10/09/24 14:25	10/09/24 16:30
40285482012	100924028	Water	10/09/24 14:45	10/09/24 16:30
40285482013	100924029	Water	10/09/24 00:00	10/09/24 16:30

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SAMPLE ANALYTE COUNT

Project: Marinette Former MGP

Pace Project No.: 40285482

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40285482001	100924017	EPA 8015B Modified	EMG	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	TPO	20	PASI-G
		EPA 8260	CXJ	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	MT	1	PASI-G
		EPA 353.2	MT	1	PASI-G
40285482002	100924018	EPA 8015B Modified	EMG	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	TPO	20	PASI-G
		EPA 8260	CXJ	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	MT	1	PASI-G
		EPA 353.2	MT	1	PASI-G
40285482003	100924019	EPA 8015B Modified	EMG	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	TPO	20	PASI-G
		EPA 8260	CXJ	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	MT	1	PASI-G
		EPA 353.2	MT	1	PASI-G
40285482004	100924020	EPA 8015B Modified	EMG	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	TPO	20	PASI-G
		EPA 8260	CXJ	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	MT	1	PASI-G
		EPA 353.2	MT	1	PASI-G
40285482005	100924021	EPA 8270E by SIM	TPO	6	PASI-G
		EPA 8260	CXJ	5	PASI-G
40285482006	100924022	EPA 8270E by SIM	TPO	6	PASI-G
		EPA 8260	CXJ	5	PASI-G
40285482007	100924023	EPA 8270E by SIM	TPO	6	PASI-G
		EPA 8260	CXJ	5	PASI-G
40285482008	100924024	EPA 8270E by SIM	TPO	6	PASI-G
		EPA 8260	CXJ	5	PASI-G
40285482009	100924025	EPA 8270E by SIM	TPO	6	PASI-G

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SAMPLE ANALYTE COUNT

Project: Marinette Former MGP

Pace Project No.: 40285482

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40285482010	100924026	EPA 8260	CXJ	5	PASI-G
		EPA 8270E by SIM	TPO	6	PASI-G
40285482011	100924027	EPA 8260	CXJ	5	PASI-G
		EPA 8270E by SIM	TPO	6	PASI-G
40285482012	100924028	EPA 8260	CXJ	5	PASI-G
		EPA 8015B Modified	EMG	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	TPO	20	PASI-G
		EPA 8260	CXJ	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	MT	1	PASI-G
40285482013	100924029	EPA 353.2	MT	1	PASI-G
		EPA 8260	CXJ	9	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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PROJECT NARRATIVE

Project: Marinette Former MGP

Pace Project No.: 40285482

Method: EPA 8015B Modified

Description: Methane, Ethane, Ethene GCV

Client: O'Brien & Gere Engineers, Inc Integrays WI

Date: October 25, 2024

General Information:

5 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: 487042

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40285482004

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

- MS (Lab ID: 2789636)
- Methane

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Marinette Former MGP

Pace Project No.: 40285482

Method: EPA 6020B

Description: 6020B MET ICPMS, Dissolved

Client: O'Brien & Gere Engineers, Inc Integrlys WI

Date: October 25, 2024

General Information:

5 samples were analyzed for EPA 6020B 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 3010A 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.

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: 486917

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

- 100924017 (Lab ID: 40285482001)

- Silver, Dissolved
- Aluminum, Dissolved
- Copper, Dissolved
- Iron, Dissolved
- Nickel, Dissolved
- Antimony, Dissolved
- Vanadium, Dissolved
- Zinc, Dissolved

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PROJECT NARRATIVE

Project: Marinette Former MGP

Pace Project No.: 40285482

Method: EPA 6020B

Description: 6020B MET ICPMS, Dissolved

Client: O'Brien & Gere Engineers, Inc Integrlys WI

Date: October 25, 2024

Analyte Comments:

QC Batch: 486917

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

- 100924018 (Lab ID: 40285482002)

- Silver, Dissolved
- Aluminum, Dissolved
- Copper, Dissolved
- Antimony, Dissolved
- Vanadium, Dissolved
- Zinc, Dissolved

- 100924019 (Lab ID: 40285482003)

- Silver, Dissolved
- Aluminum, Dissolved
- Copper, Dissolved
- Nickel, Dissolved
- Antimony, Dissolved
- Zinc, Dissolved

- 100924020 (Lab ID: 40285482004)

- Silver, Dissolved
- Aluminum, Dissolved
- Copper, Dissolved
- Nickel, Dissolved
- Antimony, Dissolved
- Vanadium, Dissolved
- Zinc, Dissolved

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PROJECT NARRATIVE

Project: Marinette Former MGP

Pace Project No.: 40285482

Method: EPA 8270E by SIM

Description: 8270E MSSV PAH

Client: O'Brien & Gere Engineers, Inc Integrlys WI

Date: October 25, 2024

General Information:

12 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: 487130

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

- 100924022 (Lab ID: 40285482006)
- 2-Fluorobiphenyl (S)

QC Batch: 487213

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

- 100924023 (Lab ID: 40285482007)
- 2-Fluorobiphenyl (S)
- 100924024 (Lab ID: 40285482008)
- 2-Fluorobiphenyl (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.

QC Batch: 487213

R1: RPD value was outside control limits.

- LCSD (Lab ID: 2790169)
- Naphthalene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Marinette Former MGP

Pace Project No.: 40285482

Method: EPA 8270E by SIM

Description: 8270E MSSV PAH

Client: O'Brien & Gere Engineers, Inc Integrlys WI

Date: October 25, 2024

Matrix Spikes:

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

QC Batch: 487213

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

Additional Comments:

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PROJECT NARRATIVE

Project: Marinette Former MGP
Pace Project No.: 40285482

Method: EPA 8260
Description: 8260 MSV UST
Client: O'Brien & Gere Engineers, Inc Integrlys WI
Date: October 25, 2024

General Information:

13 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: Marinette Former MGP
Pace Project No.: 40285482

Method: EPA 300.0
Description: 300.0 IC Anions
Client: O'Brien & Gere Engineers, Inc Integrlys WI
Date: October 25, 2024

General Information:

5 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: 488049

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40285473001,40285482004

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

- MS (Lab ID: 2795016)
- Sulfate

Additional Comments:

Analyte Comments:

QC Batch: 488049

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

- 100924019 (Lab ID: 40285482003)
 - Sulfate
- 100924020 (Lab ID: 40285482004)
 - Sulfate

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PROJECT NARRATIVE

Project: Marinette Former MGP
Pace Project No.: 40285482

Method: EPA 310.2
Description: 310.2 Alkalinity
Client: O'Brien & Gere Engineers, Inc Integrlys WI
Date: October 25, 2024

General Information:

5 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.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Marinette Former MGP
Pace Project No.: 40285482

Method: EPA 353.2
Description: 353.2 Nitrogen, NO₂/NO₃ pres.
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: October 25, 2024

General Information:

5 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.

QC Batch: 487716

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40285421001,40285482004

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

- MS (Lab ID: 2793447)
 - Nitrogen, NO₂ plus NO₃
- MSD (Lab ID: 2793448)
 - Nitrogen, NO₂ plus NO₃

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: Marinette Former MGP
Pace Project No.: 40285482

Sample: 100924017 Lab ID: 40285482001 Collected: 10/09/24 09:26 Received: 10/09/24 16:30 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	<0.58	ug/L	2.8	0.58	1		10/14/24 09:43	74-82-8	
6020B MET ICPMS, Dissolved Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	137J	ug/L	500	117	2	10/11/24 06:55	10/18/24 02:01	7429-90-5	D3
Antimony, Dissolved	0.38J	ug/L	2.0	0.30	2	10/11/24 06:55	10/18/24 02:01	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/11/24 06:55	10/18/24 02:01	7440-50-8	D3
Iron, Dissolved	269J	ug/L	500	116	2	10/11/24 06:55	10/18/24 02:01	7439-89-6	D3
Manganese, Dissolved	14.8	ug/L	8.1	2.4	2	10/11/24 06:55	10/18/24 02:01	7439-96-5	
Nickel, Dissolved	0.99J	ug/L	2.0	0.57	2	10/11/24 06:55	10/18/24 02:01	7440-02-0	D3
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/11/24 06:55	10/18/24 02:01	7440-22-4	D3
Vanadium, Dissolved	1.0J	ug/L	2.1	0.63	2	10/11/24 06:55	10/18/24 02:01	7440-62-2	D3
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/11/24 06:55	10/18/24 02:01	7440-66-6	D3
8270E MSSV PAH Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	0.066	ug/L	0.052	0.014	1	10/14/24 14:50	10/17/24 13:47	83-32-9	
Acenaphthylene	0.41	ug/L	0.052	0.013	1	10/14/24 14:50	10/17/24 13:47	208-96-8	
Anthracene	0.36	ug/L	0.052	0.019	1	10/14/24 14:50	10/17/24 13:47	120-12-7	
Benzo(a)anthracene	0.89	ug/L	0.052	0.014	1	10/14/24 14:50	10/17/24 13:47	56-55-3	
Benzo(a)pyrene	0.86	ug/L	0.052	0.013	1	10/14/24 14:50	10/17/24 13:47	50-32-8	
Benzo(b)fluoranthene	0.89	ug/L	0.052	0.0094	1	10/14/24 14:50	10/17/24 13:47	205-99-2	
Benzo(g,h,i)perylene	0.51	ug/L	0.052	0.024	1	10/14/24 14:50	10/17/24 13:47	191-24-2	
Benzo(k)fluoranthene	0.41	ug/L	0.052	0.023	1	10/14/24 14:50	10/17/24 13:47	207-08-9	
Chrysene	0.63	ug/L	0.052	0.013	1	10/14/24 14:50	10/17/24 13:47	218-01-9	
Dibenz(a,h)anthracene	0.11	ug/L	0.052	0.018	1	10/14/24 14:50	10/17/24 13:47	53-70-3	
Fluoranthene	2.5	ug/L	0.052	0.027	1	10/14/24 14:50	10/17/24 13:47	206-44-0	
Fluorene	0.21	ug/L	0.052	0.024	1	10/14/24 14:50	10/17/24 13:47	86-73-7	
Indeno(1,2,3-cd)pyrene	0.46	ug/L	0.052	0.016	1	10/14/24 14:50	10/17/24 13:47	193-39-5	
1-Methylnaphthalene	0.023J	ug/L	0.052	0.018	1	10/14/24 14:50	10/17/24 13:47	90-12-0	
2-Methylnaphthalene	<0.014	ug/L	0.052	0.014	1	10/14/24 14:50	10/17/24 13:47	91-57-6	
Naphthalene	0.043J	ug/L	0.052	0.021	1	10/14/24 14:50	10/17/24 13:47	91-20-3	
Phenanthrene	1.8	ug/L	0.052	0.026	1	10/14/24 14:50	10/17/24 13:47	85-01-8	
Pyrene	1.8	ug/L	0.052	0.023	1	10/14/24 14:50	10/17/24 13:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	83	%	33-123		1	10/14/24 14:50	10/17/24 13:47	321-60-8	
Terphenyl-d14 (S)	90	%	36-134		1	10/14/24 14:50	10/17/24 13:47	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		10/11/24 19:41	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/11/24 19:41	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/11/24 19:41	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/11/24 19:41	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/11/24 19:41	179601-23-1	

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ANALYTICAL RESULTS

Project: Marinette Former MGP
Pace Project No.: 40285482

Sample: 100924017		Lab ID: 40285482001		Collected: 10/09/24 09:26		Received: 10/09/24 16:30		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									
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/11/24 19:41	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/11/24 19:41	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		1		10/11/24 19:41	460-00-4	
Toluene-d8 (S)	94	%	70-130		1		10/11/24 19:41	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	855	mg/L	100	22.2	50		10/25/24 10:19	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	142	mg/L	25.0	7.4	1		10/15/24 11:55		
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		10/21/24 10:29		
Sample: 100924018		Lab ID: 40285482002		Collected: 10/09/24 09:58		Received: 10/09/24 16:30		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	285	ug/L	5.6	1.2	2		10/14/24 12:47	74-82-8	
6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<117	ug/L	500	117	2	10/11/24 06:55	10/18/24 02:09	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/11/24 06:55	10/18/24 02:09	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/11/24 06:55	10/18/24 02:09	7440-50-8	D3
Iron, Dissolved	3780	ug/L	500	116	2	10/11/24 06:55	10/18/24 02:09	7439-89-6	
Manganese, Dissolved	504	ug/L	8.1	2.4	2	10/11/24 06:55	10/18/24 02:09	7439-96-5	
Nickel, Dissolved	3.8	ug/L	2.0	0.57	2	10/11/24 06:55	10/18/24 02:09	7440-02-0	
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/11/24 06:55	10/18/24 02:09	7440-22-4	D3
Vanadium, Dissolved	1.1J	ug/L	2.1	0.63	2	10/11/24 06:55	10/18/24 02:09	7440-62-2	D3
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/11/24 06:55	10/18/24 02:09	7440-66-6	D3
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	<0.015	ug/L	0.055	0.015	1	10/14/24 14:50	10/17/24 15:34	83-32-9	
Acenaphthylene	0.15	ug/L	0.055	0.014	1	10/14/24 14:50	10/17/24 15:34	208-96-8	
Anthracene	0.23	ug/L	0.055	0.021	1	10/14/24 14:50	10/17/24 15:34	120-12-7	

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ANALYTICAL RESULTS

Project: Marinette Former MGP
Pace Project No.: 40285482

Sample: 100924018 Lab ID: 40285482002 Collected: 10/09/24 09:58 Received: 10/09/24 16:30 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)anthracene	0.27	ug/L	0.055	0.015	1	10/14/24 14:50	10/17/24 15:34	56-55-3	
Benzo(a)pyrene	0.53	ug/L	0.055	0.014	1	10/14/24 14:50	10/17/24 15:34	50-32-8	
Benzo(b)fluoranthene	0.81	ug/L	0.055	0.010	1	10/14/24 14:50	10/17/24 15:34	205-99-2	
Benzo(g,h,i)perylene	0.60	ug/L	0.055	0.026	1	10/14/24 14:50	10/17/24 15:34	191-24-2	
Benzo(k)fluoranthene	0.33	ug/L	0.055	0.025	1	10/14/24 14:50	10/17/24 15:34	207-08-9	
Chrysene	0.48	ug/L	0.055	0.014	1	10/14/24 14:50	10/17/24 15:34	218-01-9	
Dibenz(a,h)anthracene	0.096	ug/L	0.055	0.020	1	10/14/24 14:50	10/17/24 15:34	53-70-3	
Fluoranthene	0.61	ug/L	0.055	0.029	1	10/14/24 14:50	10/17/24 15:34	206-44-0	
Fluorene	<0.026	ug/L	0.055	0.026	1	10/14/24 14:50	10/17/24 15:34	86-73-7	
Indeno(1,2,3-cd)pyrene	0.43	ug/L	0.055	0.017	1	10/14/24 14:50	10/17/24 15:34	193-39-5	
1-Methylnaphthalene	0.022J	ug/L	0.055	0.020	1	10/14/24 14:50	10/17/24 15:34	90-12-0	
2-Methylnaphthalene	0.018J	ug/L	0.055	0.015	1	10/14/24 14:50	10/17/24 15:34	91-57-6	
Naphthalene	0.067	ug/L	0.055	0.022	1	10/14/24 14:50	10/17/24 15:34	91-20-3	
Phenanthrene	0.13	ug/L	0.055	0.028	1	10/14/24 14:50	10/17/24 15:34	85-01-8	
Pyrene	0.51	ug/L	0.055	0.025	1	10/14/24 14:50	10/17/24 15:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	33-123		1	10/14/24 14:50	10/17/24 15:34	321-60-8	
Terphenyl-d14 (S)	89	%	36-134		1	10/14/24 14:50	10/17/24 15:34	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		10/11/24 19:59	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/11/24 19:59	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/11/24 19:59	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/11/24 19:59	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/11/24 19:59	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/11/24 19:59	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		10/11/24 19:59	2199-69-1	
4-Bromofluorobenzene (S)	97	%	70-130		1		10/11/24 19:59	460-00-4	
Toluene-d8 (S)	94	%	70-130		1		10/11/24 19:59	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	28.6	mg/L	10.0	2.2	5		10/24/24 20:47	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	429	mg/L	25.0	7.4	1		10/15/24 11:56		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.15J	mg/L	0.25	0.059	1		10/21/24 10:30		

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ANALYTICAL RESULTS

Project: Marinette Former MGP
Pace Project No.: 40285482

Sample: 100924019 Lab ID: 40285482003 Collected: 10/09/24 10:33 Received: 10/09/24 16:30 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	10100	ug/L	280	57.6	100		10/14/24 12:54	74-82-8	
6020B MET ICPMS, Dissolved Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<117	ug/L	500	117	2	10/11/24 06:55	10/18/24 02:13	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/11/24 06:55	10/18/24 02:13	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/11/24 06:55	10/18/24 02:13	7440-50-8	D3
Iron, Dissolved	8410	ug/L	500	116	2	10/11/24 06:55	10/18/24 02:13	7439-89-6	
Manganese, Dissolved	629	ug/L	8.1	2.4	2	10/11/24 06:55	10/18/24 02:13	7439-96-5	
Nickel, Dissolved	0.723	ug/L	2.0	0.57	2	10/11/24 06:55	10/18/24 02:13	7440-02-0	D3
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/11/24 06:55	10/18/24 02:13	7440-22-4	D3
Vanadium, Dissolved	3.0	ug/L	2.1	0.63	2	10/11/24 06:55	10/18/24 02:13	7440-62-2	
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/11/24 06:55	10/18/24 02:13	7440-66-6	D3
8270E MSSV PAH Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	0.35	ug/L	0.056	0.016	1	10/14/24 14:50	10/17/24 15:51	83-32-9	
Acenaphthylene	<0.014	ug/L	0.056	0.014	1	10/14/24 14:50	10/17/24 15:51	208-96-8	
Anthracene	<0.021	ug/L	0.056	0.021	1	10/14/24 14:50	10/17/24 15:51	120-12-7	
Benzo(a)anthracene	<0.015	ug/L	0.056	0.015	1	10/14/24 14:50	10/17/24 15:51	56-55-3	
Benzo(a)pyrene	<0.014	ug/L	0.056	0.014	1	10/14/24 14:50	10/17/24 15:51	50-32-8	
Benzo(b)fluoranthene	<0.010	ug/L	0.056	0.010	1	10/14/24 14:50	10/17/24 15:51	205-99-2	
Benzo(g,h,i)perylene	<0.026	ug/L	0.056	0.026	1	10/14/24 14:50	10/17/24 15:51	191-24-2	
Benzo(k)fluoranthene	<0.025	ug/L	0.056	0.025	1	10/14/24 14:50	10/17/24 15:51	207-08-9	
Chrysene	<0.014	ug/L	0.056	0.014	1	10/14/24 14:50	10/17/24 15:51	218-01-9	
Dibenz(a,h)anthracene	<0.020	ug/L	0.056	0.020	1	10/14/24 14:50	10/17/24 15:51	53-70-3	
Fluoranthene	<0.029	ug/L	0.056	0.029	1	10/14/24 14:50	10/17/24 15:51	206-44-0	
Fluorene	<0.026	ug/L	0.056	0.026	1	10/14/24 14:50	10/17/24 15:51	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.056	0.017	1	10/14/24 14:50	10/17/24 15:51	193-39-5	
1-Methylnaphthalene	0.25	ug/L	0.056	0.020	1	10/14/24 14:50	10/17/24 15:51	90-12-0	
2-Methylnaphthalene	0.059	ug/L	0.056	0.015	1	10/14/24 14:50	10/17/24 15:51	91-57-6	
Naphthalene	1.1	ug/L	0.056	0.022	1	10/14/24 14:50	10/17/24 15:51	91-20-3	
Phenanthrene	<0.029	ug/L	0.056	0.029	1	10/14/24 14:50	10/17/24 15:51	85-01-8	
Pyrene	<0.025	ug/L	0.056	0.025	1	10/14/24 14:50	10/17/24 15:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	33-123		1	10/14/24 14:50	10/17/24 15:51	321-60-8	
Terphenyl-d14 (S)	82	%	36-134		1	10/14/24 14:50	10/17/24 15:51	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		10/11/24 20:17	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/11/24 20:17	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/11/24 20:17	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/11/24 20:17	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/11/24 20:17	179601-23-1	

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ANALYTICAL RESULTS

Project: Marinette Former MGP
Pace Project No.: 40285482

Sample: 100924019		Lab ID: 40285482003		Collected: 10/09/24 10:33		Received: 10/09/24 16:30		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									
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/11/24 20:17	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/11/24 20:17	2199-69-1	
4-Bromofluorobenzene (S)	91	%	70-130		1		10/11/24 20:17	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		10/11/24 20:17	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	2.4J	mg/L	10.0	2.2	5		10/24/24 20:58	14808-79-8	D3
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	311	mg/L	25.0	7.4	1		10/15/24 11:58		
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		10/21/24 10:30		

Sample: 100924020		Lab ID: 40285482004		Collected: 10/09/24 11:09		Received: 10/09/24 16:30		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	7600	ug/L	280	57.6	100		10/14/24 13:41	74-82-8	M1
6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<117	ug/L	500	117	2	10/11/24 06:55	10/18/24 01:44	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	10/11/24 06:55	10/18/24 01:44	7440-36-0	D3
Copper, Dissolved	<3.8	ug/L	12.7	3.8	2	10/11/24 06:55	10/18/24 01:44	7440-50-8	D3
Iron, Dissolved	30200	ug/L	500	116	2	10/11/24 06:55	10/18/24 01:44	7439-89-6	
Manganese, Dissolved	767	ug/L	8.1	2.4	2	10/11/24 06:55	10/18/24 01:44	7439-96-5	
Nickel, Dissolved	<0.57	ug/L	2.0	0.57	2	10/11/24 06:55	10/18/24 01:44	7440-02-0	D3
Silver, Dissolved	<0.25	ug/L	1.0	0.25	2	10/11/24 06:55	10/18/24 01:44	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	10/11/24 06:55	10/18/24 01:44	7440-62-2	D3
Zinc, Dissolved	<20.7	ug/L	68.9	20.7	2	10/11/24 06:55	10/18/24 01:44	7440-66-6	D3
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	3.8	ug/L	0.057	0.016	1	10/14/24 14:50	10/16/24 16:28	83-32-9	
Acenaphthylene	0.081	ug/L	0.057	0.014	1	10/14/24 14:50	10/16/24 16:28	208-96-8	
Anthracene	0.085	ug/L	0.057	0.021	1	10/14/24 14:50	10/16/24 16:28	120-12-7	

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ANALYTICAL RESULTS

Project: Marinette Former MGP

Pace Project No.: 40285482

Sample: 100924020 Lab ID: 40285482004 Collected: 10/09/24 11:09 Received: 10/09/24 16:30 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)anthracene	0.048J	ug/L	0.057	0.015	1	10/14/24 14:50	10/16/24 16:28	56-55-3	
Benzo(a)pyrene	0.034J	ug/L	0.057	0.014	1	10/14/24 14:50	10/16/24 16:28	50-32-8	
Benzo(b)fluoranthene	0.048J	ug/L	0.057	0.010	1	10/14/24 14:50	10/16/24 16:28	205-99-2	
Benzo(g,h,i)perylene	0.030J	ug/L	0.057	0.026	1	10/14/24 14:50	10/16/24 16:28	191-24-2	
Benzo(k)fluoranthene	<0.025	ug/L	0.057	0.025	1	10/14/24 14:50	10/16/24 16:28	207-08-9	
Chrysene	0.065	ug/L	0.057	0.014	1	10/14/24 14:50	10/16/24 16:28	218-01-9	
Dibenz(a,h)anthracene	<0.020	ug/L	0.057	0.020	1	10/14/24 14:50	10/16/24 16:28	53-70-3	
Fluoranthene	0.38	ug/L	0.057	0.030	1	10/14/24 14:50	10/16/24 16:28	206-44-0	
Fluorene	0.61	ug/L	0.057	0.027	1	10/14/24 14:50	10/16/24 16:28	86-73-7	
Indeno(1,2,3-cd)pyrene	0.021J	ug/L	0.057	0.018	1	10/14/24 14:50	10/16/24 16:28	193-39-5	
1-Methylnaphthalene	1.0	ug/L	0.057	0.020	1	10/14/24 14:50	10/16/24 16:28	90-12-0	
2-Methylnaphthalene	0.023J	ug/L	0.057	0.016	1	10/14/24 14:50	10/16/24 16:28	91-57-6	
Naphthalene	0.10	ug/L	0.057	0.023	1	10/14/24 14:50	10/16/24 16:28	91-20-3	
Phenanthrene	0.20	ug/L	0.057	0.029	1	10/14/24 14:50	10/16/24 16:28	85-01-8	
Pyrene	0.32	ug/L	0.057	0.026	1	10/14/24 14:50	10/16/24 16:28	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	79	%	33-123		1	10/14/24 14:50	10/16/24 16:28	321-60-8	
Terphenyl-d14 (S)	88	%	36-134		1	10/14/24 14:50	10/16/24 16:28	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		10/11/24 17:36	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/11/24 17:36	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/11/24 17:36	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/11/24 17:36	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/11/24 17:36	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/11/24 17:36	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		10/11/24 17:36	2199-69-1	
4-Bromofluorobenzene (S)	93	%	70-130		1		10/11/24 17:36	460-00-4	
Toluene-d8 (S)	92	%	70-130		1		10/11/24 17:36	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	<2.2	mg/L	10.0	2.2	5		10/24/24 21:09	14808-79-8	D3
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	382	mg/L	25.0	7.4	1		10/15/24 11:59		
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		10/21/24 10:31		M0

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ANALYTICAL RESULTS

Project: Marinette Former MGP
Pace Project No.: 40285482

Sample: 100924021 Lab ID: 40285482005 Collected: 10/09/24 12:10 Received: 10/09/24 16:30 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	23.2	ug/L	16.4	4.2	300	10/14/24 14:50	10/16/24 21:39	50-32-8	
Benzo(b)fluoranthene	24.3	ug/L	16.4	3.0	300	10/14/24 14:50	10/16/24 21:39	205-99-2	
Chrysene	22.8	ug/L	16.4	4.1	300	10/14/24 14:50	10/16/24 21:39	218-01-9	
Naphthalene	2850	ug/L	16.4	6.5	300	10/14/24 14:50	10/16/24 21:39	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	102	%	33-123		300	10/14/24 14:50	10/16/24 21:39	321-60-8	
Terphenyl-d14 (S)	65	%	36-134		300	10/14/24 14:50	10/16/24 21:39	1718-51-0	

8260 MSV UST Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	4830	ug/L	50.0	14.8	50		10/11/24 22:41	71-43-2	
Ethylbenzene	270	ug/L	50.0	16.3	50		10/11/24 22:41	100-41-4	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		50		10/11/24 22:41	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		50		10/11/24 22:41	460-00-4	
Toluene-d8 (S)	93	%	70-130		50		10/11/24 22:41	2037-26-5	

Sample: 100924022 Lab ID: 40285482006 Collected: 10/09/24 13:00 Received: 10/09/24 16:30 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	53.9	ug/L	27.8	7.1	500	10/14/24 14:50	10/16/24 21:57	50-32-8	
Benzo(b)fluoranthene	57.9	ug/L	27.8	5.1	500	10/14/24 14:50	10/16/24 21:57	205-99-2	
Chrysene	57.6	ug/L	27.8	7.0	500	10/14/24 14:50	10/16/24 21:57	218-01-9	
Naphthalene	6860	ug/L	27.8	11.1	500	10/14/24 14:50	10/16/24 21:57	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	147	%	33-123		500	10/14/24 14:50	10/16/24 21:57	321-60-8	S4
Terphenyl-d14 (S)	74	%	36-134		500	10/14/24 14:50	10/16/24 21:57	1718-51-0	

8260 MSV UST Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	5870	ug/L	50.0	14.8	50		10/11/24 21:47	71-43-2	
Ethylbenzene	236	ug/L	50.0	16.3	50		10/11/24 21:47	100-41-4	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		50		10/11/24 21:47	2199-69-1	
4-Bromofluorobenzene (S)	91	%	70-130		50		10/11/24 21:47	460-00-4	
Toluene-d8 (S)	94	%	70-130		50		10/11/24 21:47	2037-26-5	

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ANALYTICAL RESULTS

Project: Marinette Former MGP
Pace Project No.: 40285482

Sample: 100924023 Lab ID: 40285482007 Collected: 10/09/24 13:25 Received: 10/09/24 16:30 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	<6.7	ug/L	26.5	6.7	500	10/15/24 09:20	10/16/24 22:15	50-32-8	
Benzo(b)fluoranthene	<4.8	ug/L	26.5	4.8	500	10/15/24 09:20	10/16/24 22:15	205-99-2	
Chrysene	<6.7	ug/L	26.5	6.7	500	10/15/24 09:20	10/16/24 22:15	218-01-9	
Naphthalene	7740	ug/L	26.5	10.5	500	10/15/24 09:20	10/16/24 22:15	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	186	%	33-123		500	10/15/24 09:20	10/16/24 22:15	321-60-8	S4
Terphenyl-d14 (S)	91	%	36-134		500	10/15/24 09:20	10/16/24 22:15	1718-51-0	

8260 MSV UST Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	1720	ug/L	50.0	14.8	50		10/11/24 22:05	71-43-2	
Ethylbenzene	2100	ug/L	50.0	16.3	50		10/11/24 22:05	100-41-4	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		50		10/11/24 22:05	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		50		10/11/24 22:05	460-00-4	
Toluene-d8 (S)	94	%	70-130		50		10/11/24 22:05	2037-26-5	

Sample: 100924024 Lab ID: 40285482008 Collected: 10/09/24 13:30 Received: 10/09/24 16:30 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	<6.7	ug/L	26.5	6.7	500	10/15/24 09:20	10/16/24 22:33	50-32-8	
Benzo(b)fluoranthene	<4.8	ug/L	26.5	4.8	500	10/15/24 09:20	10/16/24 22:33	205-99-2	
Chrysene	<6.7	ug/L	26.5	6.7	500	10/15/24 09:20	10/16/24 22:33	218-01-9	
Naphthalene	7450	ug/L	26.5	10.5	500	10/15/24 09:20	10/16/24 22:33	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	188	%	33-123		500	10/15/24 09:20	10/16/24 22:33	321-60-8	S4
Terphenyl-d14 (S)	75	%	36-134		500	10/15/24 09:20	10/16/24 22:33	1718-51-0	

8260 MSV UST Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	1690	ug/L	50.0	14.8	50		10/11/24 22:23	71-43-2	
Ethylbenzene	2090	ug/L	50.0	16.3	50		10/11/24 22:23	100-41-4	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		50		10/11/24 22:23	2199-69-1	
4-Bromofluorobenzene (S)	93	%	70-130		50		10/11/24 22:23	460-00-4	
Toluene-d8 (S)	95	%	70-130		50		10/11/24 22:23	2037-26-5	

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ANALYTICAL RESULTS

Project: Marinette Former MGP
Pace Project No.: 40285482

Sample: 100924025 Lab ID: 40285482009 Collected: 10/09/24 14:00 Received: 10/09/24 16:30 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	<0.14	ug/L	0.55	0.14	10	10/15/24 09:20	10/16/24 22:52	50-32-8	
Benzo(b)fluoranthene	<0.099	ug/L	0.55	0.099	10	10/15/24 09:20	10/16/24 22:52	205-99-2	
Chrysene	0.24J	ug/L	0.55	0.14	10	10/15/24 09:20	10/16/24 22:52	218-01-9	
Naphthalene	120	ug/L	0.55	0.22	10	10/15/24 09:20	10/16/24 22:52	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	67	%	33-123		10	10/15/24 09:20	10/16/24 22:52	321-60-8	
Terphenyl-d14 (S)	70	%	36-134		10	10/15/24 09:20	10/16/24 22:52	1718-51-0	

8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	170	ug/L	1.0	0.30	1		10/11/24 20:35	71-43-2	
Ethylbenzene	12.6	ug/L	1.0	0.33	1		10/11/24 20:35	100-41-4	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/11/24 20:35	2199-69-1	
4-Bromofluorobenzene (S)	93	%	70-130		1		10/11/24 20:35	460-00-4	
Toluene-d8 (S)	92	%	70-130		1		10/11/24 20:35	2037-26-5	

Sample: 100924026 Lab ID: 40285482010 Collected: 10/09/24 14:05 Received: 10/09/24 16:30 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	0.14J	ug/L	0.54	0.14	10	10/15/24 09:20	10/16/24 23:10	50-32-8	
Benzo(b)fluoranthene	0.15J	ug/L	0.54	0.098	10	10/15/24 09:20	10/16/24 23:10	205-99-2	
Chrysene	0.34J	ug/L	0.54	0.14	10	10/15/24 09:20	10/16/24 23:10	218-01-9	
Naphthalene	117	ug/L	0.54	0.21	10	10/15/24 09:20	10/16/24 23:10	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	64	%	33-123		10	10/15/24 09:20	10/16/24 23:10	321-60-8	
Terphenyl-d14 (S)	65	%	36-134		10	10/15/24 09:20	10/16/24 23:10	1718-51-0	

8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	167	ug/L	1.0	0.30	1		10/11/24 20:53	71-43-2	
Ethylbenzene	11.8	ug/L	1.0	0.33	1		10/11/24 20:53	100-41-4	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/11/24 20:53	2199-69-1	
4-Bromofluorobenzene (S)	93	%	70-130		1		10/11/24 20:53	460-00-4	
Toluene-d8 (S)	94	%	70-130		1		10/11/24 20:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Marinette Former MGP

Pace Project No.: 40285482

Sample: 100924027 Lab ID: 40285482011 Collected: 10/09/24 14:25 Received: 10/09/24 16:30 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	0.051J	ug/L	0.053	0.014	1	10/15/24 09:20	10/17/24 14:58	50-32-8	
Benzo(b)fluoranthene	0.097	ug/L	0.053	0.0097	1	10/15/24 09:20	10/17/24 14:58	205-99-2	
Chrysene	0.089	ug/L	0.053	0.013	1	10/15/24 09:20	10/17/24 14:58	218-01-9	
Naphthalene	2.9	ug/L	0.053	0.021	1	10/15/24 09:20	10/17/24 14:58	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	66	%	33-123		1	10/15/24 09:20	10/17/24 14:58	321-60-8	
Terphenyl-d14 (S)	65	%	36-134		1	10/15/24 09:20	10/17/24 14:58	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		10/11/24 21:29	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/11/24 21:29	100-41-4	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		10/11/24 21:29	2199-69-1	
4-Bromofluorobenzene (S)	97	%	70-130		1		10/11/24 21:29	460-00-4	
Toluene-d8 (S)	93	%	70-130		1		10/11/24 21:29	2037-26-5	

Sample: 100924028 Lab ID: 40285482012 Collected: 10/09/24 14:45 Received: 10/09/24 16:30 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	<0.58	ug/L	2.8	0.58	1		10/14/24 12:05	74-82-8	

6020B MET ICPMS, Dissolved Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	10/11/24 06:55	10/18/24 08:12	7429-90-5	
Antimony, Dissolved	<0.15	ug/L	1.0	0.15	1	10/11/24 06:55	10/18/24 08:12	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	10/11/24 06:55	10/18/24 08:12	7440-50-8	
Iron, Dissolved	<58.0	ug/L	250	58.0	1	10/11/24 06:55	10/18/24 08:12	7439-89-6	
Manganese, Dissolved	<1.2	ug/L	4.0	1.2	1	10/11/24 06:55	10/18/24 08:12	7439-96-5	
Nickel, Dissolved	<0.28	ug/L	1.0	0.28	1	10/11/24 06:55	10/18/24 08:12	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	10/11/24 06:55	10/18/24 08:12	7440-22-4	
Vanadium, Dissolved	<0.32	ug/L	1.0	0.32	1	10/11/24 06:55	10/18/24 08:12	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	10/11/24 06:55	10/18/24 08:12	7440-66-6	

8270E MSSV PAH Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	<0.015	ug/L	0.053	0.015	1	10/15/24 09:20	10/17/24 15:15	83-32-9	
Acenaphthylene	<0.013	ug/L	0.053	0.013	1	10/15/24 09:20	10/17/24 15:15	208-96-8	
Anthracene	<0.019	ug/L	0.053	0.019	1	10/15/24 09:20	10/17/24 15:15	120-12-7	
Benzo(a)anthracene	<0.014	ug/L	0.053	0.014	1	10/15/24 09:20	10/17/24 15:15	56-55-3	

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ANALYTICAL RESULTS

Project: Marinette Former MGP
Pace Project No.: 40285482

Sample: 100924028 Lab ID: 40285482012 Collected: 10/09/24 14:45 Received: 10/09/24 16:30 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	<0.013	ug/L	0.053	0.013	1	10/15/24 09:20	10/17/24 15:15	50-32-8	
Benzo(b)fluoranthene	<0.0096	ug/L	0.053	0.0096	1	10/15/24 09:20	10/17/24 15:15	205-99-2	
Benzo(g,h,i)perylene	<0.025	ug/L	0.053	0.025	1	10/15/24 09:20	10/17/24 15:15	191-24-2	
Benzo(k)fluoranthene	<0.023	ug/L	0.053	0.023	1	10/15/24 09:20	10/17/24 15:15	207-08-9	
Chrysene	<0.013	ug/L	0.053	0.013	1	10/15/24 09:20	10/17/24 15:15	218-01-9	
Dibenz(a,h)anthracene	<0.019	ug/L	0.053	0.019	1	10/15/24 09:20	10/17/24 15:15	53-70-3	
Fluoranthene	<0.027	ug/L	0.053	0.027	1	10/15/24 09:20	10/17/24 15:15	206-44-0	
Fluorene	<0.025	ug/L	0.053	0.025	1	10/15/24 09:20	10/17/24 15:15	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.016	ug/L	0.053	0.016	1	10/15/24 09:20	10/17/24 15:15	193-39-5	
1-Methylnaphthalene	<0.019	ug/L	0.053	0.019	1	10/15/24 09:20	10/17/24 15:15	90-12-0	
2-Methylnaphthalene	<0.015	ug/L	0.053	0.015	1	10/15/24 09:20	10/17/24 15:15	91-57-6	
Naphthalene	0.024J	ug/L	0.053	0.021	1	10/15/24 09:20	10/17/24 15:15	91-20-3	
Phenanthrene	<0.027	ug/L	0.053	0.027	1	10/15/24 09:20	10/17/24 15:15	85-01-8	
Pyrene	<0.024	ug/L	0.053	0.024	1	10/15/24 09:20	10/17/24 15:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	33-123		1	10/15/24 09:20	10/17/24 15:15	321-60-8	
Terphenyl-d14 (S)	78	%	36-134		1	10/15/24 09:20	10/17/24 15:15	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		10/11/24 21:11	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/11/24 21:11	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/11/24 21:11	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/11/24 21:11	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/11/24 21:11	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/11/24 21:11	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/11/24 21:11	2199-69-1	
4-Bromofluorobenzene (S)	98	%	70-130		1		10/11/24 21:11	460-00-4	
Toluene-d8 (S)	93	%	70-130		1		10/11/24 21:11	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	0.58J	mg/L	2.0	0.44	1		10/24/24 21:41	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<7.4	mg/L	25.0	7.4	1		10/15/24 12:07		
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		10/21/24 10:36		

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ANALYTICAL RESULTS

Project: Marinette Former MGP

Pace Project No.: 40285482

Sample: 100924029 Lab ID: 40285482013 Collected: 10/09/24 00:00 Received: 10/09/24 16:30 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		10/11/24 17:18	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/11/24 17:18	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/11/24 17:18	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/11/24 17:18	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/11/24 17:18	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/11/24 17:18	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		10/11/24 17:18	2199-69-1	
4-Bromofluorobenzene (S)	94	%	70-130		1		10/11/24 17:18	460-00-4	
Toluene-d8 (S)	93	%	70-130		1		10/11/24 17:18	2037-26-5	

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QUALITY CONTROL DATA

Project: Marinette Former MGP
Pace Project No.: 40285482

QC Batch:	487042	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: 40285482001, 40285482002, 40285482003, 40285482004, 40285482012

METHOD BLANK: 2789633 Matrix: Water
Associated Lab Samples: 40285482001, 40285482002, 40285482003, 40285482004, 40285482012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.58	2.8	10/14/24 07:52	

LABORATORY CONTROL SAMPLE & LCSD: 2789634		2789635								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	32.7	31.8	115	111	73-121	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2789636					2789637							
Parameter	Units	40285482004	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
		Result	Spike	Spike								
Methane	ug/L	7600	2860	2860	7620	9570	1	69	10-184	23	33	M1

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QUALITY CONTROL DATA

Project: Marinette Former MGP
Pace Project No.: 40285482

QC Batch: 486917 Analysis Method: EPA 6020B
QC Batch Method: EPA 3010A Analysis Description: 6020B MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40285482001, 40285482002, 40285482003, 40285482004, 40285482012

METHOD BLANK: 2788567 Matrix: Water
Associated Lab Samples: 40285482001, 40285482002, 40285482003, 40285482004, 40285482012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<58.7	250	10/18/24 01:36	
Antimony, Dissolved	ug/L	<0.15	1.0	10/18/24 01:36	
Copper, Dissolved	ug/L	<1.9	6.4	10/18/24 01:36	
Iron, Dissolved	ug/L	<58.0	250	10/18/24 01:36	
Manganese, Dissolved	ug/L	<1.2	4.0	10/18/24 01:36	
Nickel, Dissolved	ug/L	<0.28	1.0	10/18/24 01:36	
Silver, Dissolved	ug/L	<0.13	0.50	10/18/24 01:36	
Vanadium, Dissolved	ug/L	<0.32	1.0	10/18/24 01:36	
Zinc, Dissolved	ug/L	<10.3	34.4	10/18/24 01:36	

LABORATORY CONTROL SAMPLE: 2788568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9890	99	80-120	
Antimony, Dissolved	ug/L	250	246	98	80-120	
Copper, Dissolved	ug/L	250	250	100	80-120	
Iron, Dissolved	ug/L	10000	10000	100	80-120	
Manganese, Dissolved	ug/L	250	247	99	80-120	
Nickel, Dissolved	ug/L	250	245	98	80-120	
Silver, Dissolved	ug/L	125	121	97	80-120	
Vanadium, Dissolved	ug/L	250	247	99	80-120	
Zinc, Dissolved	ug/L	250	252	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2788569 2788570

Parameter	Units	40285482004	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Aluminum, Dissolved	ug/L	<117	10000	10000	9620	9730	96	97	75-125	1	20	
Antimony, Dissolved	ug/L	<0.30	250	250	250	250	100	100	75-125	0	20	
Copper, Dissolved	ug/L	<3.8	250	250	245	244	98	98	75-125	0	20	
Iron, Dissolved	ug/L	30200	10000	10000	40300	40500	102	104	75-125	0	20	
Manganese, Dissolved	ug/L	767	250	250	1010	1010	98	97	75-125	0	20	
Nickel, Dissolved	ug/L	<0.57	250	250	241	244	96	98	75-125	2	20	
Silver, Dissolved	ug/L	<0.25	125	125	118	118	94	95	75-125	0	20	
Vanadium, Dissolved	ug/L	<0.63	250	250	250	253	100	101	75-125	1	20	
Zinc, Dissolved	ug/L	<20.7	250	250	251	253	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Marinette Former MGP
Pace Project No.: 40285482

QC Batch:	486965	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40285482001, 40285482002, 40285482003, 40285482004, 40285482005, 40285482006, 40285482007, 40285482008, 40285482009, 40285482010, 40285482011, 40285482012, 40285482013		

METHOD BLANK: 2788720 Matrix: Water
Associated Lab Samples: 40285482001, 40285482002, 40285482003, 40285482004, 40285482005, 40285482006, 40285482007, 40285482008, 40285482009, 40285482010, 40285482011, 40285482012, 40285482013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.30	1.0	10/11/24 15:48	
Ethylbenzene	ug/L	<0.33	1.0	10/11/24 15:48	
m&p-Xylene	ug/L	<0.70	2.0	10/11/24 15:48	
o-Xylene	ug/L	<0.35	1.0	10/11/24 15:48	
Toluene	ug/L	<0.29	1.0	10/11/24 15:48	
Xylene (Total)	ug/L	<1.0	3.0	10/11/24 15:48	
1,2-Dichlorobenzene-d4 (S)	%	105	70-130	10/11/24 15:48	
4-Bromofluorobenzene (S)	%	93	70-130	10/11/24 15:48	
Toluene-d8 (S)	%	92	70-130	10/11/24 15:48	

LABORATORY CONTROL SAMPLE: 2788721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	59.9	120	70-130	
Ethylbenzene	ug/L	50	58.4	117	80-125	
m&p-Xylene	ug/L	100	120	120	70-130	
o-Xylene	ug/L	50	58.7	117	70-130	
Toluene	ug/L	50	58.3	117	80-120	
Xylene (Total)	ug/L	150	178	119	70-130	
1,2-Dichlorobenzene-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			92	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2788722 2788723

Parameter	Units	40285482004 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	57.4	56.8	115	114	70-130	1	20	
Ethylbenzene	ug/L	<0.33	50	50	56.7	54.6	113	109	80-126	4	20	
m&p-Xylene	ug/L	<0.70	100	100	117	115	117	115	70-130	2	20	
o-Xylene	ug/L	<0.35	50	50	57.8	56.4	116	113	70-130	2	20	
Toluene	ug/L	<0.29	50	50	56.7	54.2	113	108	80-121	5	20	
Xylene (Total)	ug/L	<1.0	150	150	175	171	117	114	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%						99	96	70-130			
4-Bromofluorobenzene (S)	%						94	93	70-130			
Toluene-d8 (S)	%						95	96	70-130			

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QUALITY CONTROL DATA

Project: Marinette Former MGP
Pace Project No.: 40285482

QC Batch: 487130 Analysis Method: EPA 8270E by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270E Water PAH
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40285482001, 40285482002, 40285482003, 40285482004, 40285482005, 40285482006

METHOD BLANK: 2789875 Matrix: Water
Associated Lab Samples: 40285482001, 40285482002, 40285482003, 40285482004, 40285482005, 40285482006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.018	0.050	10/16/24 15:17	
2-Methylnaphthalene	ug/L	<0.014	0.050	10/16/24 15:17	
Acenaphthene	ug/L	<0.014	0.050	10/16/24 15:17	
Acenaphthylene	ug/L	<0.013	0.050	10/16/24 15:17	
Anthracene	ug/L	<0.018	0.050	10/16/24 15:17	
Benzo(a)anthracene	ug/L	<0.014	0.050	10/16/24 15:17	
Benzo(a)pyrene	ug/L	<0.013	0.050	10/16/24 15:17	
Benzo(b)fluoranthene	ug/L	<0.0091	0.050	10/16/24 15:17	
Benzo(g,h,i)perylene	ug/L	<0.023	0.050	10/16/24 15:17	
Benzo(k)fluoranthene	ug/L	<0.022	0.050	10/16/24 15:17	
Chrysene	ug/L	<0.013	0.050	10/16/24 15:17	
Dibenz(a,h)anthracene	ug/L	<0.018	0.050	10/16/24 15:17	
Fluoranthene	ug/L	<0.026	0.050	10/16/24 15:17	
Fluorene	ug/L	<0.024	0.050	10/16/24 15:17	
Indeno(1,2,3-cd)pyrene	ug/L	<0.016	0.050	10/16/24 15:17	
Naphthalene	ug/L	<0.020	0.050	10/16/24 15:17	
Phenanthrene	ug/L	<0.026	0.050	10/16/24 15:17	
Pyrene	ug/L	<0.023	0.050	10/16/24 15:17	
2-Fluorobiphenyl (S)	%	81	33-123	10/16/24 15:17	
Terphenyl-d14 (S)	%	90	36-134	10/16/24 15:17	

LABORATORY CONTROL SAMPLE: 2789876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.9	96	52-120	
2-Methylnaphthalene	ug/L	2	1.9	95	50-120	
Acenaphthene	ug/L	2	1.6	80	56-120	
Acenaphthylene	ug/L	2	1.6	82	56-120	
Anthracene	ug/L	2	1.8	92	61-120	
Benzo(a)anthracene	ug/L	2	1.8	90	59-120	
Benzo(a)pyrene	ug/L	2	1.9	96	60-120	
Benzo(b)fluoranthene	ug/L	2	1.8	92	56-120	
Benzo(g,h,i)perylene	ug/L	2	1.8	92	57-120	
Benzo(k)fluoranthene	ug/L	2	1.9	94	61-120	
Chrysene	ug/L	2	1.8	92	62-125	
Dibenz(a,h)anthracene	ug/L	2	1.6	82	41-120	
Fluoranthene	ug/L	2	2.0	98	62-120	
Fluorene	ug/L	2	1.8	90	57-120	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.9	95	53-120	

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QUALITY CONTROL DATA

Project: Marinette Former MGP
Pace Project No.: 40285482

LABORATORY CONTROL SAMPLE: 2789876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.7	86	46-120	
Phenanthrene	ug/L	2	1.8	92	63-120	
Pyrene	ug/L	2	1.7	87	52-120	
2-Fluorobiphenyl (S)	%			82	33-123	
Terphenyl-d14 (S)	%			90	36-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2789877 2789878

Parameter	Units	40285482004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	1.0	2.2	2.2	3.4	3.5	106	110	10-153	2	34	
2-Methylnaphthalene	ug/L	0.023J	2.2	2.2	2.2	2.3	98	104	25-120	5	31	
Acenaphthene	ug/L	3.8	2.2	2.2	5.8	6.2	91	106	22-128	6	28	
Acenaphthylene	ug/L	0.081	2.2	2.2	2.0	2.0	84	88	38-120	4	31	
Anthracene	ug/L	0.085	2.2	2.2	2.2	2.4	95	103	37-120	7	29	
Benzo(a)anthracene	ug/L	0.048J	2.2	2.2	2.1	2.3	92	101	18-120	8	25	
Benzo(a)pyrene	ug/L	0.034J	2.2	2.2	2.1	2.3	93	103	31-120	10	34	
Benzo(b)fluoranthene	ug/L	0.048J	2.2	2.2	2.0	2.2	89	95	29-124	6	25	
Benzo(g,h,i)perylene	ug/L	0.030J	2.2	2.2	2.1	2.3	94	102	17-124	8	29	
Benzo(k)fluoranthene	ug/L	<0.025	2.2	2.2	2.0	2.1	89	94	34-127	5	28	
Chrysene	ug/L	0.065	2.2	2.2	2.1	2.2	90	95	25-153	5	29	
Dibenz(a,h)anthracene	ug/L	<0.020	2.2	2.2	2.1	2.2	94	101	10-122	6	30	
Fluoranthene	ug/L	0.38	2.2	2.2	2.7	2.8	102	109	39-129	5	30	
Fluorene	ug/L	0.61	2.2	2.2	2.7	2.7	93	96	41-120	2	28	
Indeno(1,2,3-cd)pyrene	ug/L	0.021J	2.2	2.2	2.2	2.3	98	104	11-127	6	30	
Naphthalene	ug/L	0.10	2.2	2.2	2.1	2.4	90	101	16-136	10	39	
Phenanthrene	ug/L	0.20	2.2	2.2	2.3	2.5	93	103	39-120	8	28	
Pyrene	ug/L	0.32	2.2	2.2	2.3	2.5	89	97	31-122	7	27	
2-Fluorobiphenyl (S)	%						83	85	33-123			
Terphenyl-d14 (S)	%						89	96	36-134			

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QUALITY CONTROL DATA

Project: Marinette Former MGP
Pace Project No.: 40285482

QC Batch: 487213 Analysis Method: EPA 8270E by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270E Water PAH
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40285482007, 40285482008, 40285482009, 40285482010, 40285482011, 40285482012

METHOD BLANK: 2790167 Matrix: Water
Associated Lab Samples: 40285482007, 40285482008, 40285482009, 40285482010, 40285482011, 40285482012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.018	0.050	10/16/24 15:34	
2-Methylnaphthalene	ug/L	<0.014	0.050	10/16/24 15:34	
Acenaphthene	ug/L	<0.014	0.050	10/16/24 15:34	
Acenaphthylene	ug/L	<0.013	0.050	10/16/24 15:34	
Anthracene	ug/L	<0.018	0.050	10/16/24 15:34	
Benzo(a)anthracene	ug/L	<0.014	0.050	10/16/24 15:34	
Benzo(a)pyrene	ug/L	<0.013	0.050	10/16/24 15:34	
Benzo(b)fluoranthene	ug/L	<0.0091	0.050	10/16/24 15:34	
Benzo(g,h,i)perylene	ug/L	<0.023	0.050	10/16/24 15:34	
Benzo(k)fluoranthene	ug/L	<0.022	0.050	10/16/24 15:34	
Chrysene	ug/L	<0.013	0.050	10/16/24 15:34	
Dibenz(a,h)anthracene	ug/L	<0.018	0.050	10/16/24 15:34	
Fluoranthene	ug/L	<0.026	0.050	10/16/24 15:34	
Fluorene	ug/L	<0.024	0.050	10/16/24 15:34	
Indeno(1,2,3-cd)pyrene	ug/L	<0.016	0.050	10/16/24 15:34	
Naphthalene	ug/L	<0.020	0.050	10/16/24 15:34	
Phenanthrene	ug/L	<0.026	0.050	10/16/24 15:34	
Pyrene	ug/L	<0.023	0.050	10/16/24 15:34	
2-Fluorobiphenyl (S)	%	84	33-123	10/16/24 15:34	
Terphenyl-d14 (S)	%	93	36-134	10/16/24 15:34	

LABORATORY CONTROL SAMPLE & LCSD: 2790168

		2790169								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.8	1.9	89	93	52-120	5	20	
2-Methylnaphthalene	ug/L	2	1.8	1.9	88	93	50-120	5	20	
Acenaphthene	ug/L	2	1.5	1.5	75	77	56-120	2	20	
Acenaphthylene	ug/L	2	1.5	1.5	75	76	56-120	1	20	
Anthracene	ug/L	2	1.7	1.7	85	86	61-120	1	20	
Benzo(a)anthracene	ug/L	2	1.6	1.6	78	80	59-120	3	20	
Benzo(a)pyrene	ug/L	2	1.8	1.8	88	89	60-120	1	20	
Benzo(b)fluoranthene	ug/L	2	1.6	1.7	81	85	56-120	4	20	
Benzo(g,h,i)perylene	ug/L	2	1.6	1.6	82	81	57-120	0	20	
Benzo(k)fluoranthene	ug/L	2	1.7	1.7	87	86	61-120	2	20	
Chrysene	ug/L	2	1.7	1.7	86	86	62-125	1	20	
Dibenz(a,h)anthracene	ug/L	2	1.3	1.2	64	60	41-120	7	27	
Fluoranthene	ug/L	2	1.8	1.8	89	92	62-120	3	20	
Fluorene	ug/L	2	1.6	1.7	82	83	57-120	1	20	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	1.7	83	85	53-120	3	23	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Marinette Former MGP
Pace Project No.: 40285482

LABORATORY CONTROL SAMPLE & LCSD: 2790168			2790169							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Naphthalene	ug/L	2	1.7	2.3	83	115	46-120	32	20	R1
Phenanthrene	ug/L	2	1.7	1.7	83	85	63-120	3	20	
Pyrene	ug/L	2	1.6	1.6	78	79	52-120	1	20	
2-Fluorobiphenyl (S)	%				78	79	33-123			
Terphenyl-d14 (S)	%				85	84	36-134			

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



QUALITY CONTROL DATA

Project: Marinette Former MGP
Pace Project No.: 40285482

QC Batch: 488049 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: 40285482001, 40285482002, 40285482003, 40285482004, 40285482012

METHOD BLANK: 2795014 Matrix: Water
Associated Lab Samples: 40285482001, 40285482002, 40285482003, 40285482004, 40285482012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	10/24/24 15:50	

LABORATORY CONTROL SAMPLE: 2795015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2795016 2795017

Parameter	Units	40285473001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	308	400	400	753	724	111	104	90-110	4	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2795018 2795019

Parameter	Units	40285482004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	<2.2	100	100	105	107	105	107	90-110	2	15	

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QUALITY CONTROL DATA

Project: Marinette Former MGP
Pace Project No.: 40285482

QC Batch: 487143 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: 40285482001, 40285482002, 40285482003, 40285482004

METHOD BLANK: 2789893 Matrix: Water
Associated Lab Samples: 40285482001, 40285482002, 40285482003, 40285482004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<7.4	25.0	10/15/24 11:29	

LABORATORY CONTROL SAMPLE: 2789894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2789895 2789896

Parameter	Units	40285425002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	348	200	200	552	553	102	103	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2789897 2789898

Parameter	Units	40285482004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	382	100	100	477	480	95	98	90-110	1	20	

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QUALITY CONTROL DATA

Project: Marinette Former MGP
Pace Project No.: 40285482

QC Batch:	487144	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: 40285482012

METHOD BLANK: 2789899 Matrix: Water

Associated Lab Samples: 40285482012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<7.4	25.0	10/15/24 12:05	

LABORATORY CONTROL SAMPLE: 2789900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	100	104	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2789901 2789902

Parameter	Units	40285482012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	<7.4	100	100	110	102	108	101	90-110	7	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2789903 2789904

Parameter	Units	40285609008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	329	100	100	425	426	96	97	90-110	0	20	

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QUALITY CONTROL DATA

Project: Marinette Former MGP
Pace Project No.: 40285482

QC Batch: 487716 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40285482001, 40285482002, 40285482003, 40285482004, 40285482012

METHOD BLANK: 2793443 Matrix: Water
Associated Lab Samples: 40285482001, 40285482002, 40285482003, 40285482004, 40285482012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	10/21/24 10:20	

LABORATORY CONTROL SAMPLE: 2793444

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: 2793445 2793446

Parameter	Units	40285421001 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	13.0	12.9	102	101	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2793447 2793448

Parameter	Units	40285482004 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	2.2	2.2	86	88	90-110	2	20	M0

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QUALIFIERS

Project: Marinette Former MGP
Pace Project No.: 40285482

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 - The reported result is an estimated value.
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.
DL - Adjusted Method Detection Limit.
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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.
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: 487281

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
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.
R1 RPD value was outside control limits.
S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Marinette Former MGP
Pace Project No.: 40285482

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40285482001	100924017	EPA 8015B Modified	487042		
40285482002	100924018	EPA 8015B Modified	487042		
40285482003	100924019	EPA 8015B Modified	487042		
40285482004	100924020	EPA 8015B Modified	487042		
40285482012	100924028	EPA 8015B Modified	487042		
40285482001	100924017	EPA 3010A	486917	EPA 6020B	487129
40285482002	100924018	EPA 3010A	486917	EPA 6020B	487129
40285482003	100924019	EPA 3010A	486917	EPA 6020B	487129
40285482004	100924020	EPA 3010A	486917	EPA 6020B	487129
40285482012	100924028	EPA 3010A	486917	EPA 6020B	487129
40285482001	100924017	EPA 3510	487130	EPA 8270E by SIM	487177
40285482002	100924018	EPA 3510	487130	EPA 8270E by SIM	487177
40285482003	100924019	EPA 3510	487130	EPA 8270E by SIM	487177
40285482004	100924020	EPA 3510	487130	EPA 8270E by SIM	487177
40285482005	100924021	EPA 3510	487130	EPA 8270E by SIM	487177
40285482006	100924022	EPA 3510	487130	EPA 8270E by SIM	487177
40285482007	100924023	EPA 3510	487213	EPA 8270E by SIM	487281
40285482008	100924024	EPA 3510	487213	EPA 8270E by SIM	487281
40285482009	100924025	EPA 3510	487213	EPA 8270E by SIM	487281
40285482010	100924026	EPA 3510	487213	EPA 8270E by SIM	487281
40285482011	100924027	EPA 3510	487213	EPA 8270E by SIM	487281
40285482012	100924028	EPA 3510	487213	EPA 8270E by SIM	487281
40285482001	100924017	EPA 8260	486965		
40285482002	100924018	EPA 8260	486965		
40285482003	100924019	EPA 8260	486965		
40285482004	100924020	EPA 8260	486965		
40285482005	100924021	EPA 8260	486965		
40285482006	100924022	EPA 8260	486965		
40285482007	100924023	EPA 8260	486965		
40285482008	100924024	EPA 8260	486965		
40285482009	100924025	EPA 8260	486965		
40285482010	100924026	EPA 8260	486965		
40285482011	100924027	EPA 8260	486965		
40285482012	100924028	EPA 8260	486965		
40285482013	100924029	EPA 8260	486965		
40285482001	100924017	EPA 300.0	488049		
40285482002	100924018	EPA 300.0	488049		
40285482003	100924019	EPA 300.0	488049		
40285482004	100924020	EPA 300.0	488049		
40285482012	100924028	EPA 300.0	488049		
40285482001	100924017	EPA 310.2	487143		
40285482002	100924018	EPA 310.2	487143		
40285482003	100924019	EPA 310.2	487143		
40285482004	100924020	EPA 310.2	487143		
40285482012	100924028	EPA 310.2	487144		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Marinette Former MGP

Pace Project No.: 40285482

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40285482001	100924017	EPA 353.2	487716		
40285482002	100924018	EPA 353.2	487716		
40285482003	100924019	EPA 353.2	487716		
40285482004	100924020	EPA 353.2	487716		
40285482012	100924028	EPA 353.2	487716		

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40205482

LAB USE ONLY - Affix Workorder/Login Label Here



COC #3

Scan QR Code for instructions

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Pace® Location Requested (City/State):
 Pace Analytical Green Bay
 1241 Bellevue Street, Suite 9
 Green Bay, WI 54302

Company Name: O'Brien & Gere Engineers, Inc Integrlys WI
 Street Address: 234 W Florida St
 Fifth Floor
 Milwaukee, WI 53204

Customer Project #:

Project Name: Marinette Former MGP

Site Collection Info/Facility ID (as applicable):

Contact/Report To: Emily Ruder
 Phone #: 414-249-0678
 E-Mail: eruder@ramboll.com
 Cc E-Mail: hwalters@ramboll.com
 a.smali@ramboll.com

Invoice To: Accounts - WEC

Invoice E-Mail: invoicecollector@wecenergygroup.com

Purchase Order # (if applicable): 1200187395

Quote #:

County / State origin of sample(s): Wisconsin

Time Zone Collected: [] AK [] PT [] MT [X] CT [] ET
 Data Deliverables:

Regulatory Program (DW, RCRA, etc.) as applicable:

Reportable [] Yes [] No

Rush (Pre-approval required):

DW PWSID # or WW Permit # as applicable:

[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other

Date Results Requested:

standard turn

Field Filtered (if applicable):

[X] Yes [] No

Analysis: Metals

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine		353.2 Nitrogen, NO2/NO3 pres.	Diss 6020	8260 BTEX	8260 Benzene / Ethylbenzene	8270E MSSV / PAH	8270E MSSV / PAH Short List	Methane	Sulfate, Alkalinity		EZ 3163096	Preservation non-conformance identified for sample.	
			Date	Time	Date	Time		Results	Units										Sample Comment		
100924017	GW	G	HAZ		10.9.24	926	11			X	X	X		X		X	X		001		
100924018							958	11			X	X	X		X		X	X		002	
100924019							1033	11			X	X	X		X		X	X		003	
100924020							1109	33			X	X	X		X		X	X		MSMS D004	
100924021							1210	5						X	X					Screen 005	
100924022							1300	5						X	X					Screen 006	
100924023							1325	5						X	X					Screen 007	
100924024							1330	5						X	X					Screen 008	
100924025							1400	5						X	X					Screen 009	
100924026	✓	✓					1405	5						X	X					Screen 010	

Additional Instructions from Pace®:

Collected By:
 (Printed Name)
 Signature:

Emily Ruder

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: 1 SR 127 Thermometer ID: 0.6 Correction Factor (°C): 3.0 Obs. Temp. (°C): 3.0 Corrected Temp. (°C): 4 On Ice:

Relinquished by/Company: (Signature)
 Hailey Walters/Ramboll

Date/Time:
 10.9.1630

Received by/Company: (Signature)
 Yvonne B pae

Date/Time:
 10.9.24 1630

Tracking Number:
 N/A

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Delivered by: [] Person [] Courier

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

[] FedEx [] UPS [] Other

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/>

ENV-FRM-CORQ-0019_v02_110123 ©

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QC: 02/10/24

Effective Date: 8/16/2022

Client Name: O'Brien & Gere

Sample Preservation Receipt Form

Project # 40285482

All containers needing preservation have been checked and noted below:

☒ Yes☐ No☐ N/ALab Lot# of pH paper: 10P3733

Lab Std #ID of preservation (if pH adjusted):

Initial when completed GF

Date/Time:

Pace Lab #	Glass							Plastic					Vials					Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC							
001					2				1		1	1					6														2.5 / 5	
002					2				1		1	1					6														2.5 / 5	
003					2				1		1	1					6														2.5 / 5	
004					6				3		3	3					18														2.5 / 5	
005					2												3														2.5 / 5	
006					2												3														2.5 / 5	
007					2												3														2.5 / 5	
008					2												3														2.5 / 5	
009					2												3														2.5 / 5	
010					2												3														2.5 / 5	
011					2												3														2.5 / 5	
012					2				1		1	1					6														2.5 / 5	
013																	2														2.5 / 5	
014																															2.5 / 5	
015																															2.5 / 5	
016																															2.5 / 5	
017																															2.5 / 5	
018																															2.5 / 5	
019																															2.5 / 5	
020																															2.5 / 5	

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:Headspace in VOA Vials (>6mm): ☒ Yes ☐ No ☐ N/A

*If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: O'Brien & Gere

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

WO#: **40285482**



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 - 127 Type of Ice: Wet Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 3.0 /Corr: 3.0

Temp Blank Present: ☐ yes ☒ no

Biological Tissue is Frozen: ☐ yes ☐ no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:

Date: 01/19/24 Initials: gna

Labeled By Initials: KKS

Chain of Custody Present: ☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out: ☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished: ☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
- DI 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.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace	
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: <u>W</u>	
Trip Blank Present: ☒ Yes ☐ No ☐ N/A	13.
Trip Blank Custody Seals Present ☒ Yes ☐ No ☐ N/A	
Pace Trip Blank Lot # (if purchased): <u>534</u>	

Client Notification/ Resolution:

If checked, see attached form for additional comments ☐

Person Contacted:

Date/Time:

Comments/ Resolution: AG5U on sample point 004 broken by lab accident. mrs 10/09/2024

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

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